SERVICE MANUAL
Level 1&2

NOKIA 5200 NOKIA 5300

RM-174 RM-181 RM-146 RM-147

Transceiver characteristics:

Band:

- **RM-146/RM-174:** Tri-band phone for EGSM 900/1800/1900MHz
- **RM-147/RM-181:** Tri-band phone for GSM 850/1800/1900MHz

Camera:

- **RM-146/RM-147**: 1.3 Megapixel camera with 8x digital zoom
- **RM-174/RM-181:** VGA resolution

Display:

- **RM-146/RM-147**: QVGA TFT color display resolution 320x240, 256.644 colors
- **RM-174/RM-181:** CSTN color display 160x128, 256.644 colors

Bluetooth

IRDA

FM radio

Connector: Mini USB Connector

Memory Card: miniSD™

Transceiver with BL-5B Li-Ion battery pack

Talk time	Standby	Note
up to 3.2h	up to 9.3days	Depends on network parameters

Environmental characteristics:

- Lead-free soldered

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CHANGE HISTORY

Status	Version No.	Date	Comments
Draft	0.1	18.Jun.2006	Initial draft
Approved	1.0	18.Sept.2006	Approval

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1. INTRODUCTION

The purpose of this document is to help NOKIA service levels 1 and 2 workshop technicians to carry out service to NOKIA products. This Service Manual is to be used only by authorized NOKIA service suppliers, and the content of it is confidential. Please note that NOKIA provides also other guidance documents (e.g. Service Bulletins) for service suppliers, follow these regularly and comply with the given instructions.

While every endeavor has been made to ensure the accuracy of this document, some errors may exist.
If you find any errors or if you have further suggestions, please notify NOKIA using the address below:
mailto:cc-ts-rc.documentation@nokia.com

Please keep in mind also that this documentation is continuously being updated and modified, so watch always out for the newest version.

Warnings and Cautions

Please refer to the phone's user guide for instructions relating to operation, care and maintenance including important safety information. Note also the following:

Warnings:

1. CARE MUST BE TAKEN ON INSTALLATION IN VEHICLES FITTED WITH ELECTRONIC ENGINE MANAGEMENT SYSTEMS AND ANTI–SKID BRAKING SYSTEMS. UNDER CERTAIN FAULT CONDITIONS, EMITTED RF ENERGY CAN AFFECT THEIR OPERATION. IF NECESSARY, CONSULT THE VEHICLE DEALER/MANUFACTURER TO DETERMINE THE IMMUNITY OF VEHICLE ELECTRONIC SYSTEMS TO RF ENERGY.
2. THE HANDPORTABLE TELEPHONE MUST NOT BE OPERATED IN AREAS LIKELY TO CONTAIN POTENTIALLY EXPLOSIVE ATMOSPHERES, EG PETROL STATIONS (SERVICE STATIONS), BLASTING AREAS ETC.
3. OPERATION OF ANY RADIO TRANSMITTING EQUIPMENT, INCLUDING CELLULAR TELEPHONES, MAY INTERFERE WITH THE FUNCTIONALITY OF INADEQUATELY PROTECTED MEDICAL DEVICES. CONSULT A PHYSICIAN OR THE MANUFACTURER OF THE MEDICAL DEVICE IF YOU HAVE ANY QUESTIONS. OTHER ELECTRONIC EQUIPMENT MAY ALSO BE SUBJECT TO INTERFERENCE.

Cautions:

1. Servicing and alignment must be undertaken by qualified personnel only.
2. Ensure all work is carried out at an anti–static workstation and that an anti–static wrist strap is worn.
3. Use only approved components as specified in the parts list.
4. Ensure all components, modules screws and insulators are correctly re–fitted after servicing and alignment.
5. Ensure all cables and wires are repositioned correctly.

Electrostatic discharge can easily damage the sensitive components of electronic products. Therefore every Service Supplier has to take care of all precautions, which are mentioned in the service level related "Service Partner Requirements", available on NOKIA Online. Also see ESD Protection Requirements in this Service Manual.

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2. GENERAL REPAIR INFORMATION

In this section the technician will get some general hints how to carry out repairs:

- To familiarize oneself with NOKIA product read the tutorials or user guide on www.nokia.com -->Support--> Phones, by selecting the Phone Model.
- Before starting the repair you must take care of ESD precautions like being in your ESD Protected Area and connecting your wristband.
- Use gloves to avoid corrosion and fingerprints.
- Protect windows and displays with a film to avoid dust and scratches.
- When cleaning the LCD Module any lint-free cloth can be used (e.g. Micro-Fibre cloth).
- When cleaning the pads you have to use a soft cloth/ESD brush and Isopropanol. It is not allowed to use a glass fiber pencil because it scratches the surface and will lead later on to corrosion.
- Mechanical parts (except shielding lids and bent parts), which didn't repair the failure, can be reused, if they are not soldered.
- When removing the shielding lids make sure to replace them with new ones, otherwise the high-frequency leakage can have an influence on the device.
- Always use original NOKIA spare parts.
- Check the soldering joints of the parts, which are concerned regarding the indicated error (e.g. soldered connectors or switches) and resolder them if necessary (Level 2 only).
- Remove redundant soldering flux after repair.
- Meet the torque requirements when assembling the unit (see also the document "torques for transceiver assembly" on NOKIA Partner Web Site/NOKIA Online).
- Always use your own equipment for testing where you are sure that it works. E.g. if the customer complains about charger function, please test the phone with your own charger to be sure if phone or charger causes the malfunction.
- A SIM card is needed for all GoNoGo tests.
- When doing the fault log entries, always note the Item code, which caused the malfunction. Also, fill in the appropriate part code from the assembly, if needed.
- Please be aware that some malfunctions could be software related and solved by an update.

- There are several documents available on NOL, which have to be followed:
-
- First, take care for the latest content pages of Service Bulletins, which are always available for each folder on NOKIA Online. This is also important to recognize, if existing documents have become invalid.
-
- The service level indicator at the bottom of each document tells the appropriate destination.

Downloads > Support Library >

1. Instructions
2. General Service Bulletins
3. Product related documents
4. Spare Part Service Bulletins
5. Service Tools Service Bulletins
6. Common Software Service Bulletins
   etc,...

Use General SB-217 as a reference or overview.

Please also check NOKIA Online (NOL) for latest news and files on a regular basis.

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3. PATHFINDER FOR WORKSHOP STAFF

This is the NOL page (NOKIA Online) which is currently available in Europa, Middle East and Africa only!

In addition to the information in this Service Manual, there are several instructions and information, which have to be followed. Main documentation database is **NOKIA Online** with the purpose of serving different multimedia content, like video clips or interactive tutorials.

It is mandatory to watch for newest technical and organizational information on a daily basis to be updated as required (see **"Latest files in Support Library"**). Every new information has to be processed and implemented as soon as possible.
When logged into NOL you can also find needed information in different folder like:

Support Library → **Phones** →
Service Manuals
Service Bulletins
Software
Repair Information

Level 1&2 e-learning (former NOKIA CarePoint) on NOKIA Online

Former NOKIA CarePoint content, such as	• **Online Troubleshooting** • **Product information** • **Videos – Disassembly/Assembly**	can be found on **NOKIA Online**

Nokia 1100 Technical Training - Microsoft Internet Explorer provided by NOKIA
NOKIA
Connecting People
Nokia 1100 Technical Training
Help
Site map
Glossary
Close
Home
Overview & Guides
Disassembly & Assembly
Troubleshooting
Nokia 1100 Technical Training
This training offers a quick overview of the Nokia 1100 phone and support for how to repair and use the phone.
Overview & Guides
Disassembly & Assembly
Troubleshooting
Get a quick overview of the phone and how to use it.
Learn how to remove and reassemble the mechanical parts of the phone.
Fixes for most common problems with the Nokia phone.
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NOKIA Online
↓
Care Services
↓
Training
↓
Phone Models

Level 1&2 e-learning courses offer a quick overview of the NOKIA phone and support for how to repair and use the phone:

Overview & Guides	Disassembly & Assembly	Troubleshooting
Basic information about the phone, features and technologies	Instructions how to disassemble and assemble the phone	Step-by-step instructions on how to locate and repair the most common problems with the phone

To reduce the server traffic it is recommended to download newest version of huge files like videos, Phoenix packages or Service Manuals only once and distribute it internally for further use.

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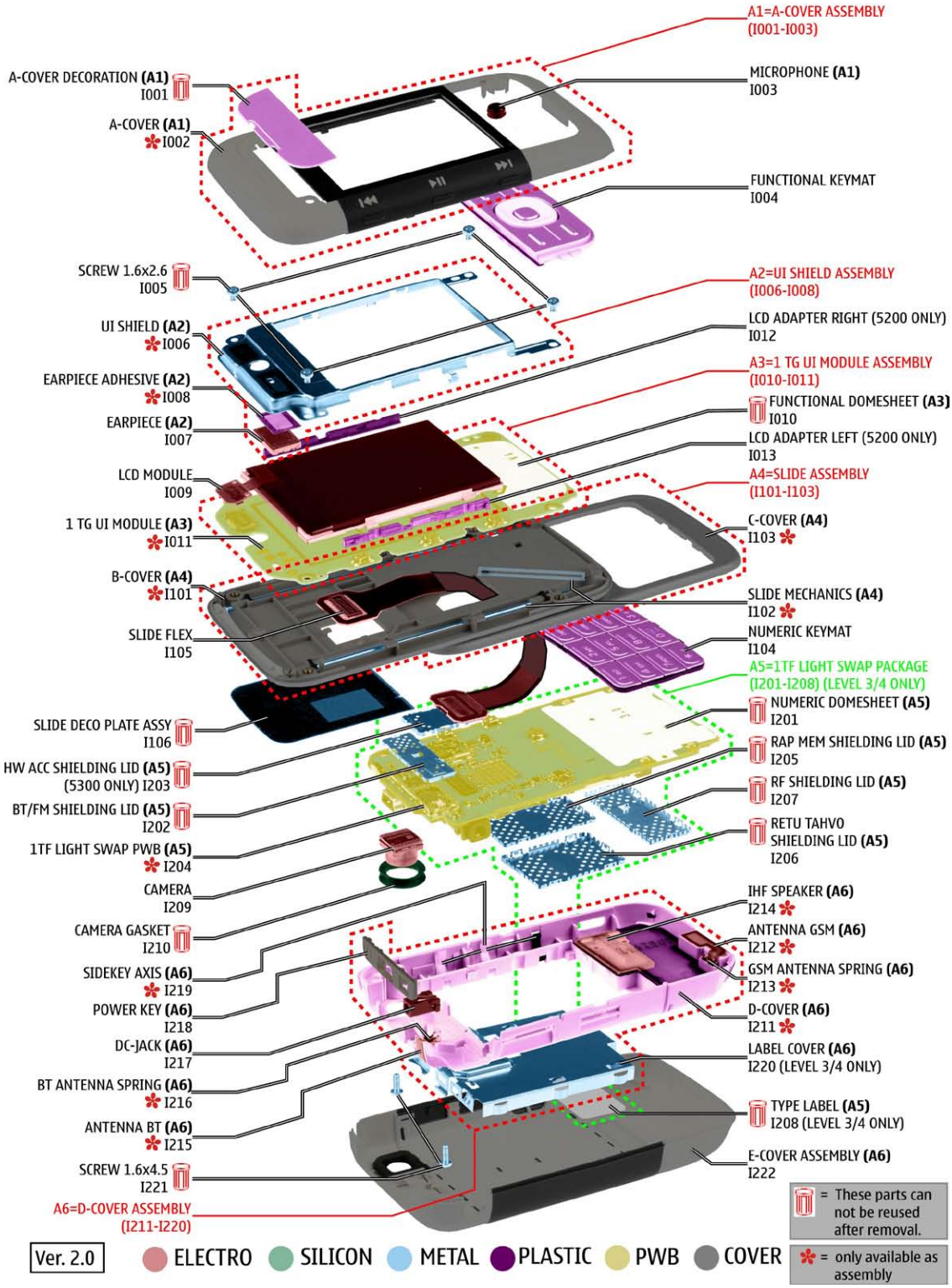
4. EXPLODED VIEW AND COMPONENT DISPOSAL

Recommendation for the ecologically friendly disposal of components. Colorized components show the different categories. See corresponding ITEM/CIRCUIT REF in the Spare Parts Service Bulletins on NOL.

5200 RM-174/181, 5300 RM-146/147 Exploded view


A1=A-COVER ASSEMBLY (I001-I003)
A-COVER DECORATION (A1) I001
MICROPHONE (A1) I003
A-COVER (A1) ✻I002
FUNCTIONAL KEYMAT I004
SCREW 1.6x2.6 I005
A2=UI SHIELD ASSEMBLY (I006-I008)
UI SHIELD (A2) ✻I006
LCD ADAPTER RIGHT (5200 ONLY) I012
EARPIECE ADHESIVE (A2) ✻I008
A3=1 TG UI MODULE ASSEMBLY (I010-I011)
EARPIECE (A2) I007
FUNCTIONAL DOMESHEET (A3) I010
LCD ADAPTER LEFT (5200 ONLY) I013
LCD MODULE I009
A4=SLIDE ASSEMBLY (I101-I103)
1 TG UI MODULE (A3) ✻I011
C-COVER (A4) I103 ✻
B-COVER (A4) ✻I101
SLIDE MECHANICS (A4) I102 ✻
SLIDE FLEX I105
NUMERIC KEYMAT I104
A5=1TF LIGHT SWAP PACKAGE (I201-I208) (LEVEL 3/4 ONLY)
SLIDE DECO PLATE ASSY I106
NUMERIC DOMESHEET (A5) I201
HW ACC SHIELDING LID (A5) (5300 ONLY) I203
RAP MEM SHIELDING LID (A5) I205
BT/FM SHIELDING LID (A5) I202
RF SHIELDING LID (A5) I207
1TF LIGHT SWAP PWB (A5) ✻I204
RETU TAHVO SHIELDING LID (A5) I206
CAMERA I209
IHF SPEAKER (A6) I214 ✻
CAMERA GASKET I210
ANTENNA GSM (A6) I212 ✻
SIDEKEY AXIS (A6) ✻I219
GSM ANTENNA SPRING (A6) I213 ✻
POWER KEY (A6) I218
D-COVER (A6) I211 ✻
DC-JACK (A6) I217
LABEL COVER (A6) I220 (LEVEL 3/4 ONLY)
BT ANTENNA SPRING (A6) ✻I216
TYPE LABEL (A5) I208 (LEVEL 3/4 ONLY)
ANTENNA BT (A6) ✻I215
E-COVER ASSEMBLY (A6) I222
SCREW 1.6x4.5 I221
A6=D-COVER ASSEMBLY (I211-I220)
= These parts can not be reused after removal.
✻ = only available as assembly
Ver. 2.0
ELECTRO
SILICON
METAL
PLASTIC
PWB
COVER

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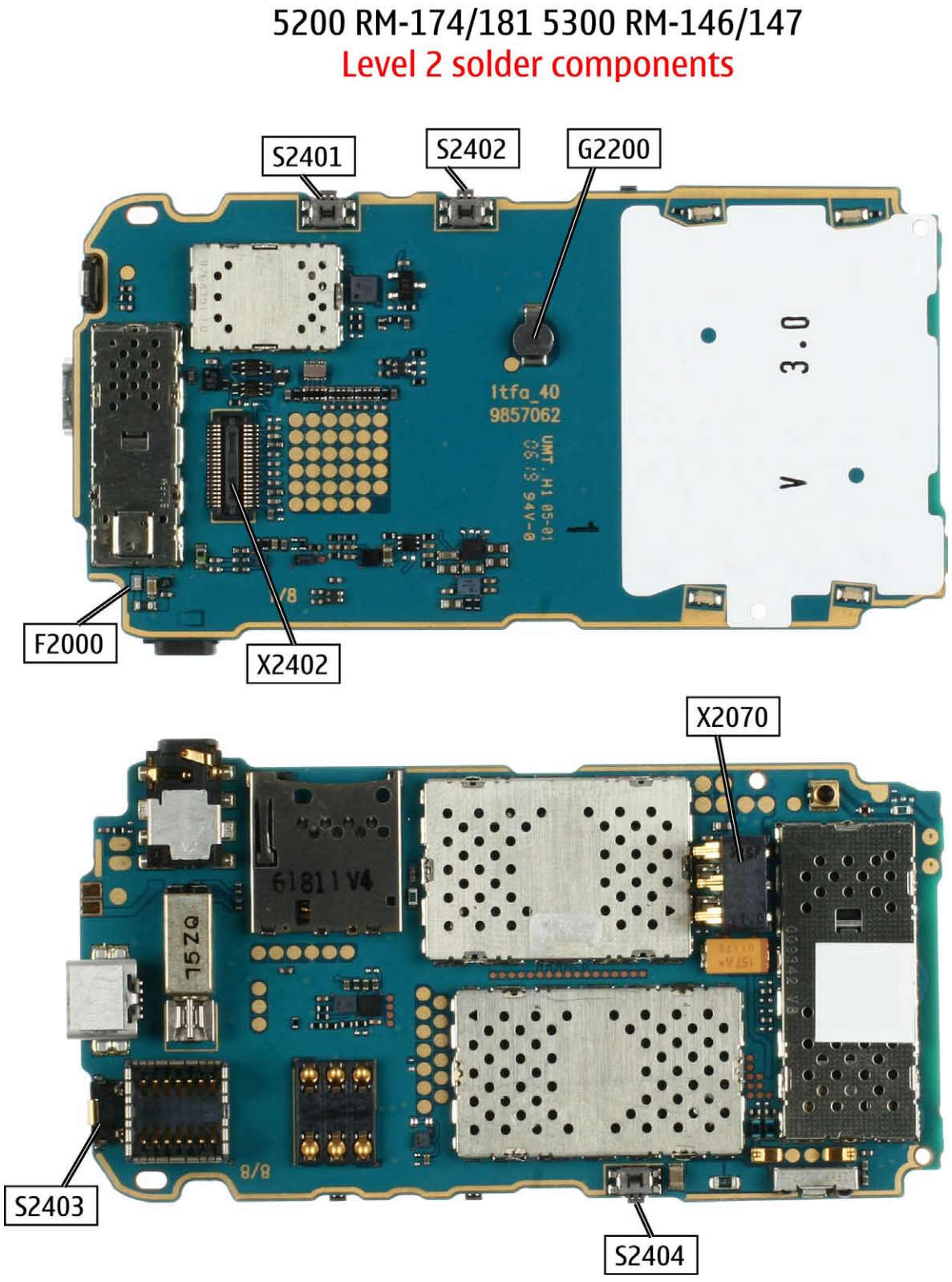
5. COMPONENT OVERVIEW



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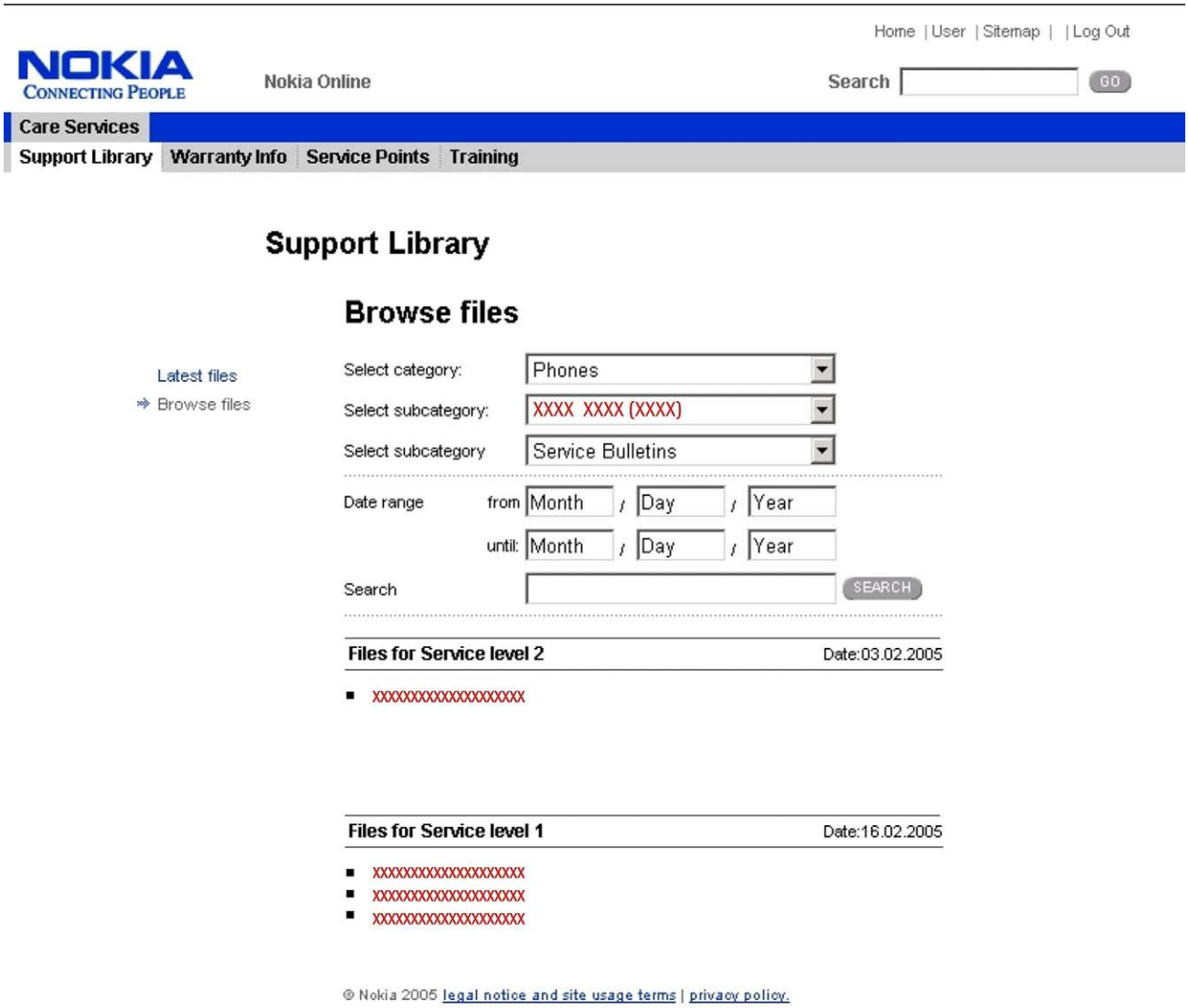
6. NOKIA ONLINE (NOL)

NOL is the database where you can find the latest corresponding Service Bulletins (spare parts, SWAP units and service tools).

This will ensure, that you are using up-to-date order codes only.

Therefore Service Bulletins have to be checked from NOL on daily basis.



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7. SERVICE TOOLS

	FLS-5 incl. ACF-8, Driver and User Guide Dongle and flash device incorporated into one package, developed specifically for POS use.
	ACF-8 Universal Power Supply is used to power FLS-4S.
	Travel Charger AC-4 Small and lightweight charger for fast charging of your phone battery.
	Internal Battery BL-5B Inserted under the back cover, this Li-Ion battery provides power in a lightweight package.
	SS-83 Domesheet alignment tool.
	DKE-2 Service Cable to connect the PC with the mini USB connector.

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	SS-45 Camera removal tool. (5300 only)
	SS-88 Camera removal tool. (5200 only)
	RJ-109 Soldering Jig
	Lead-free Solder Wire Mandatory for lead-free products (Level 2 only).
	0772040 NMP Standard Toolkit (V2) For more informations refer to the Service Bulletin (SB-011) on NOKIA Online. Supplier or manufacturer contacts for tool re-order can be found in "**Recommended service equipment**" document on NOKIA Online.

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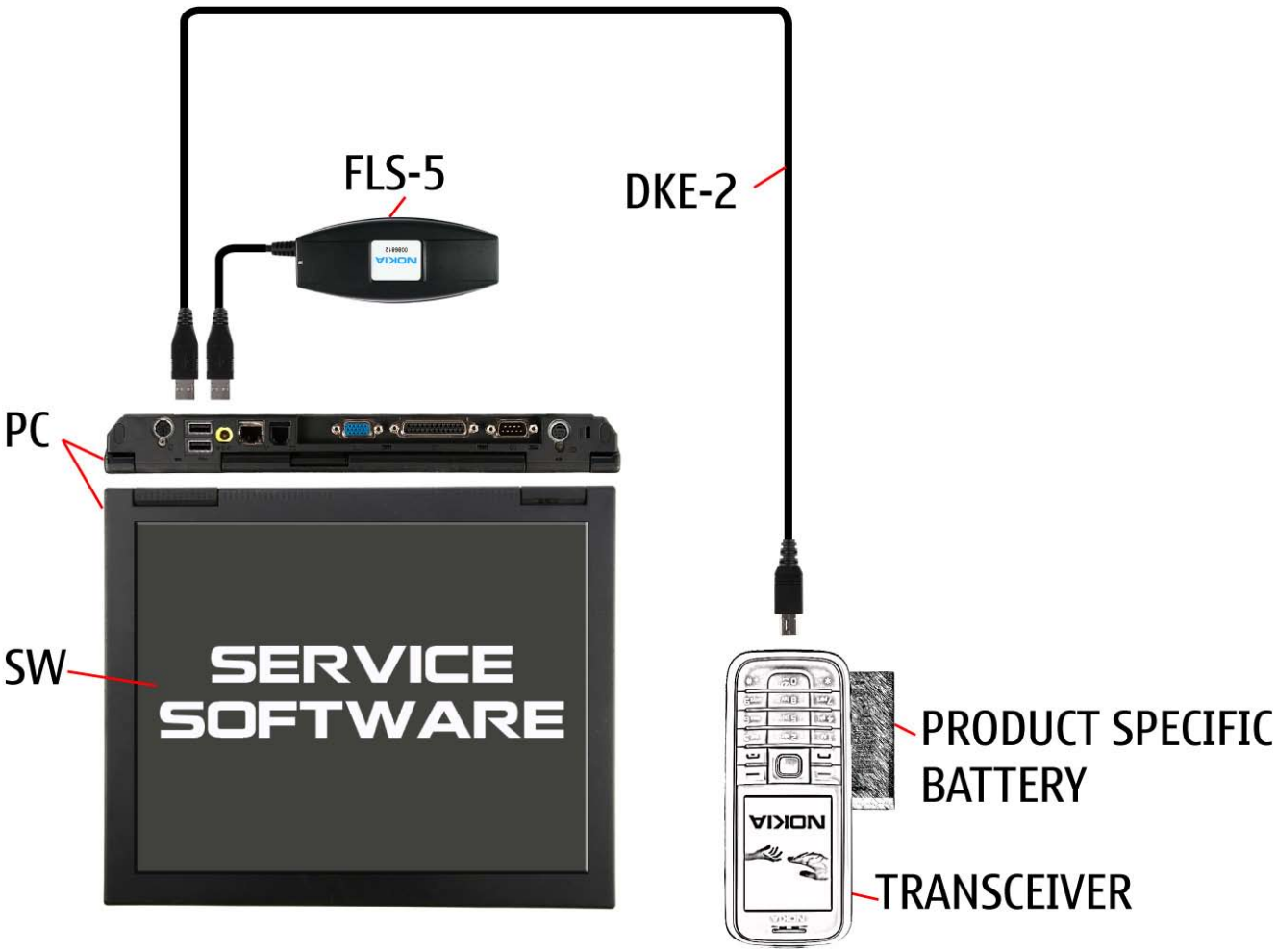
8. SW-UPDATE

Flash Concept – (Point of Sales)

To use FLS-5 Flash Dongle you have to follow the user guide inside the sales package. Please check always for the latest version of flash software, which is available on
NOKIA Online.



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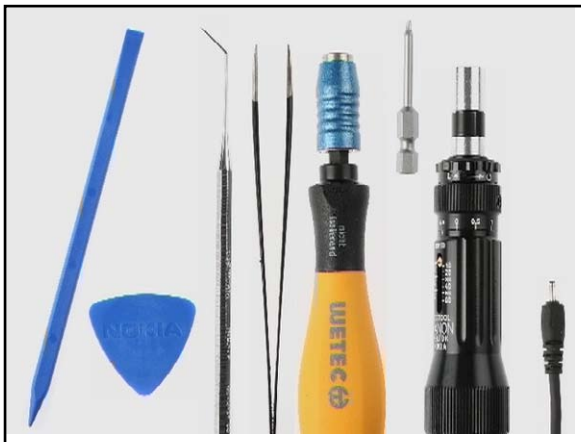
9. UPPER BLOCK DISASSEMBLY INSTRUCTION



1. Needed tools: The SS-93, the dental pick, metal tweezers, a bit holder with a Torx Plus size 6 bit, a torque driver, and a DC plug.

2. Always cover the windows with a protective film.

3. Open the E-COVER Assembly. Remove the battery if it is still inserted.

4. Use the SRT-6 to pry open the A-COVER assembly.

5. Use the SRT-6 only in direction shown. Do not shift the SRT-6 along the side where the keys are located

6. Lift up the A-COVER Assembly.

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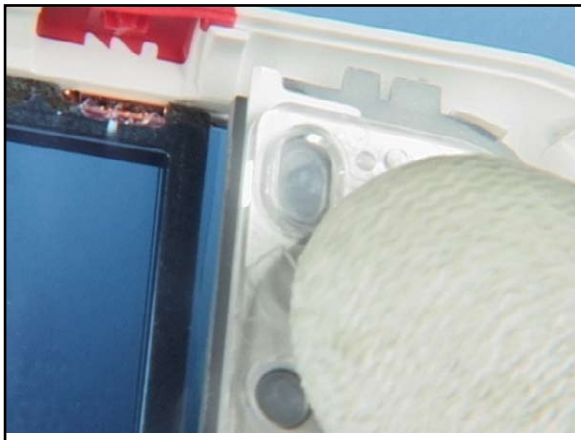
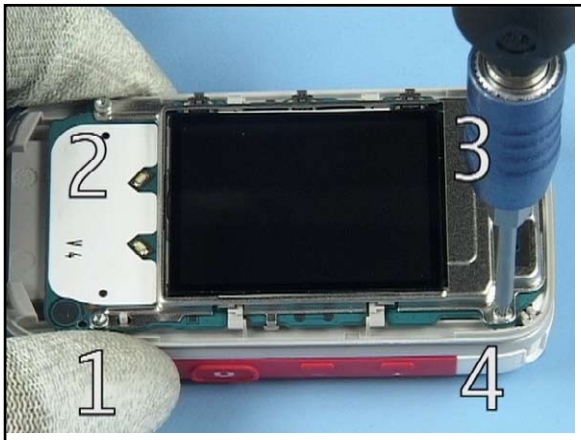
7. The A-COVER DECORATION can now pushed out without the risk of damaging the A-COVER.

8. Cover the window from inner side with a protective film.



9. Release and remove the FUNCTIONAL KEYMAT..

10. Ease out the MICROPHONE with the dental pic.



11. Unscrew the four screws in the order shown.

12. Remove all screws and discard them. Do not use them again.

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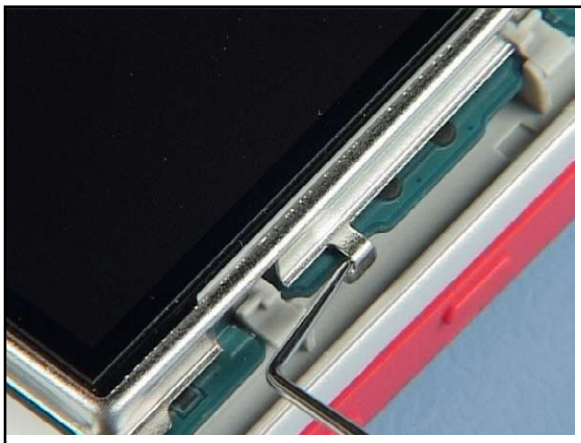
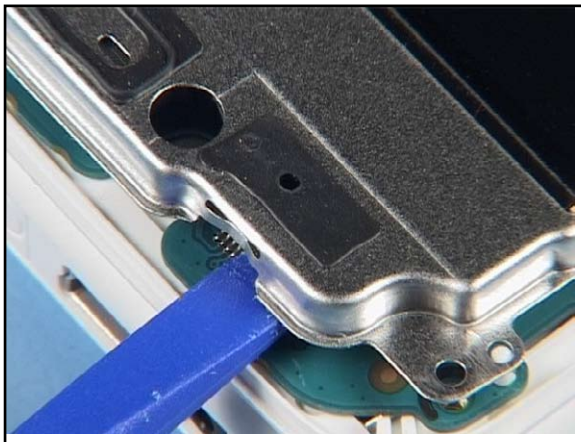


13. Carefully unlock both latches.

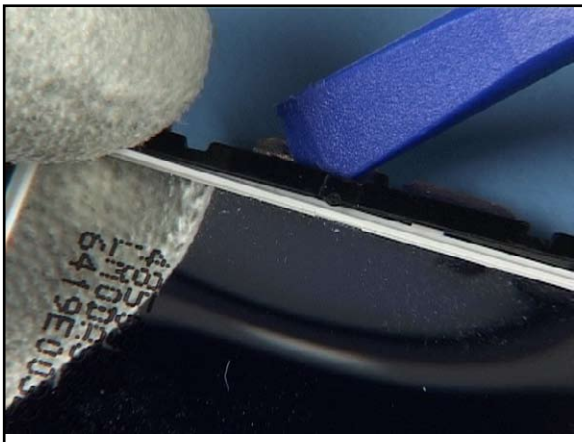
14. Lift up the UI SHIELD assembly.

15. Cover the LCD Module with a protective film.

16. Nokia 5200 add-ons



17. After removing the screws carefully disconnect the LCD MODULE connector with the SS-93.



18. Carefully lever out one LCD ADAPTER with the SS-93.

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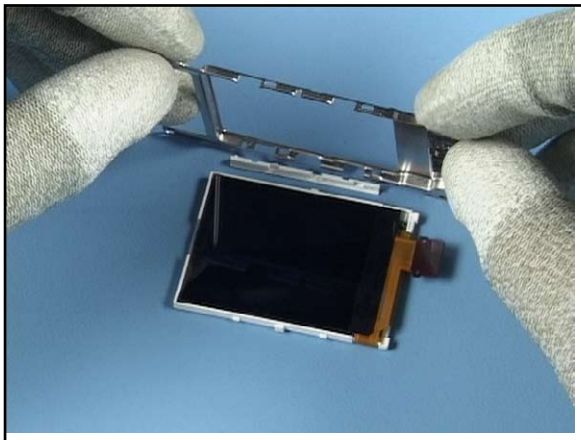
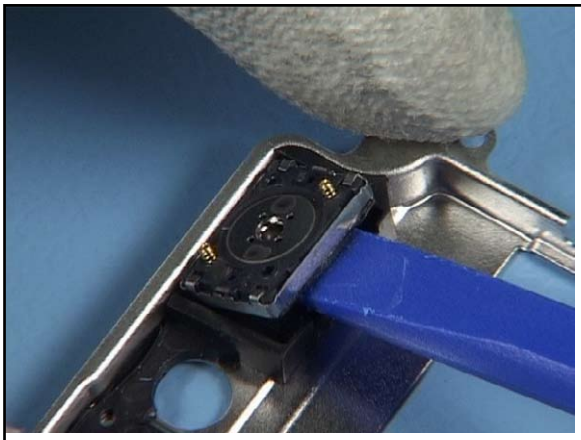
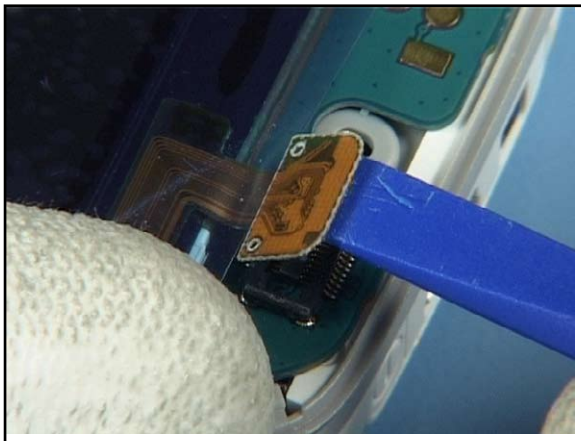


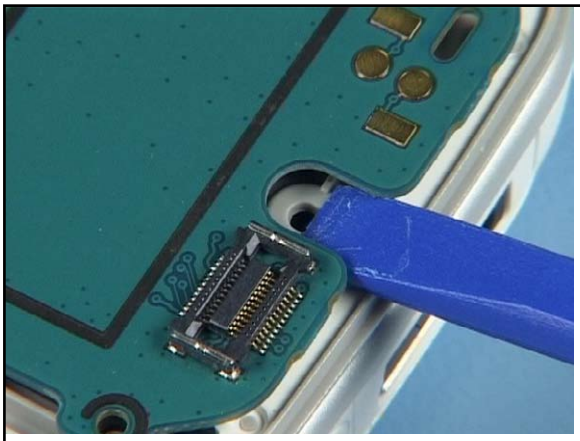
19. Now the LCD MODULE can be released from the UI SHIELD.



20. Lever out the EARPIECE.



21. Open the Flex Connector of the LCD MODULE.



22. Carefully lever up the TG UI MODULE. This will disconnect the hidden B to B connector.

23. To remove the SIDE FLEX both parts of the phone must be disassembled first.

24. Start removing the connector of the SIDE FLEX by lifting it up as shown first.

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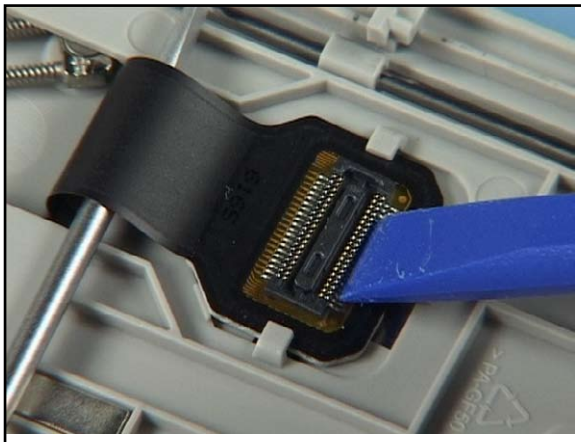

25. Then carefully shift it with the SS-93 as shown.

26. After disassembling the upper part the SIDE FLEX can be removed easily.

27. The disassembly of the upper part is now completed.

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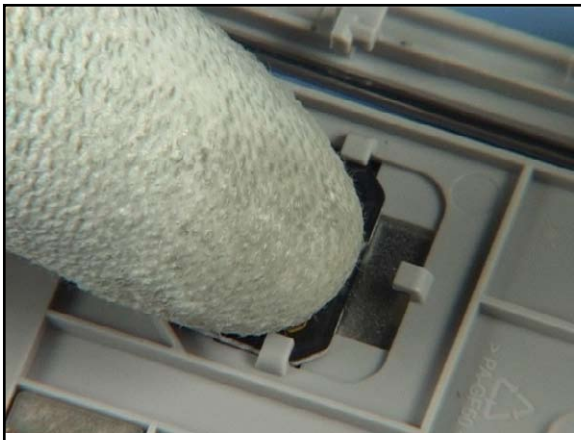
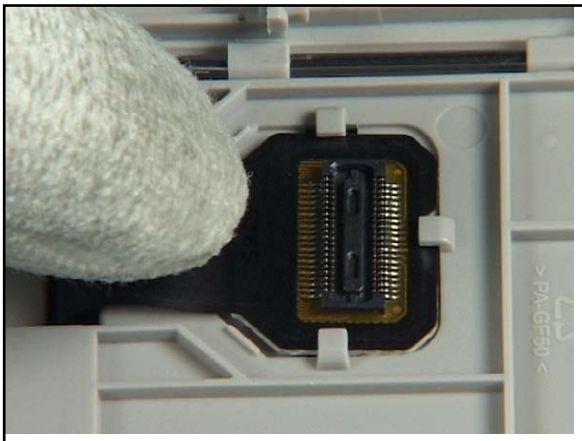
10. UPPER BLOCK ASSEMBLY INSTRUCTION

1. Assembly

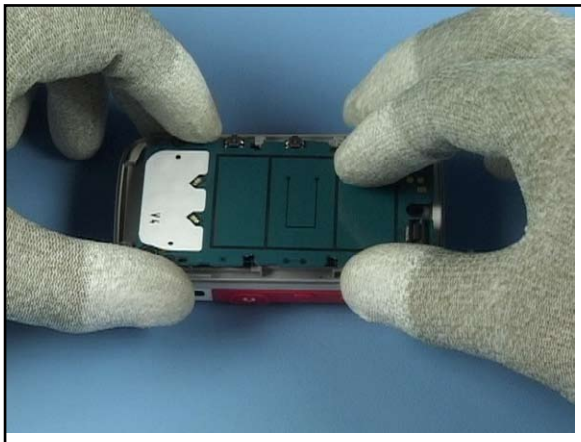


2. Place the SIDE FLEX into its compartment.

3. Now close the slide mechanism.



4. Push the connector into position shown.



5. Place the UI MODULE exactly as shown.

6. Check the positioning of the connector before continue.

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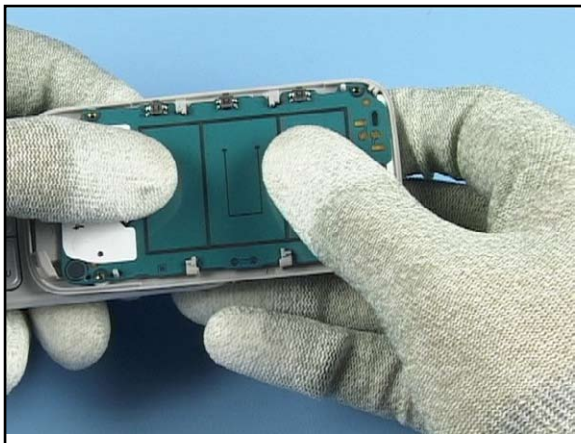
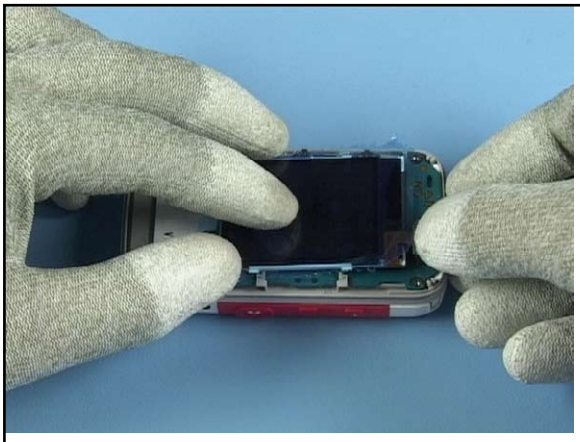


7. Push down the UI MODULE while opening the slide mechanism.

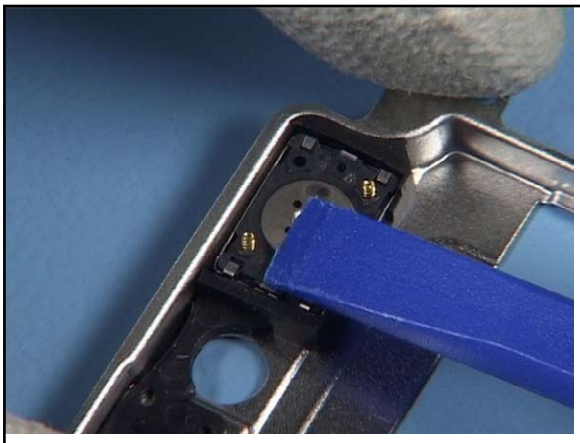
8. Check the position of the UI MODULE again.

9. Now close the hidden connector.



10. Position the LCD MODULE and close the connector.

11. Insert the EARPIECE, always fit a new adhesive when replacing the EARPIECE.



12. Push it down evenly.

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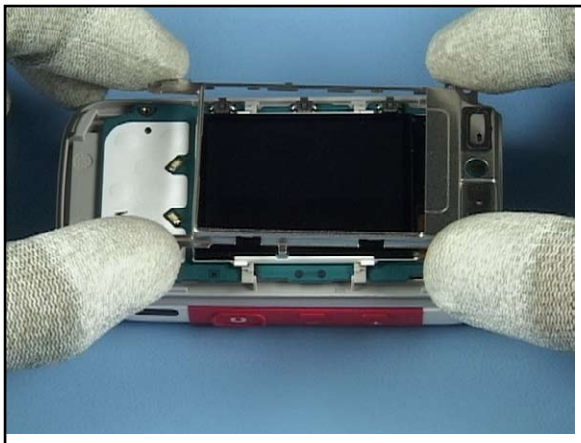
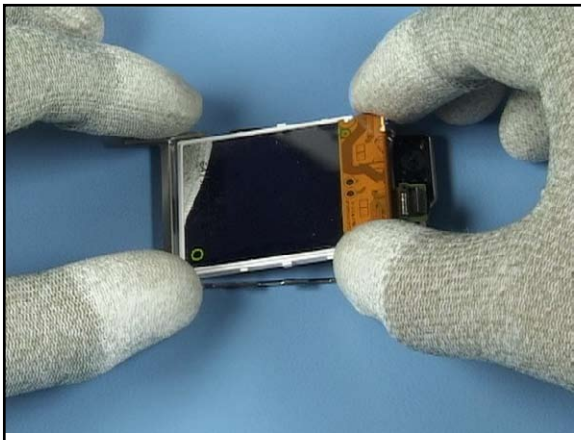


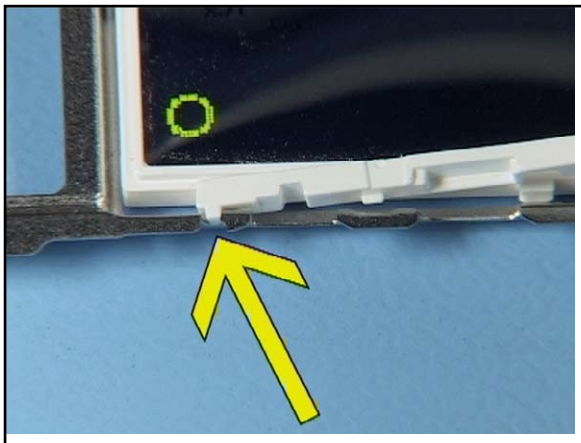
13. Now place the UI SHIELD over the assembly as shown.

14. Mind that the two snaps are clicked into their places.

15. Nokia 5200 add-ons



16. Peel up the protection film from the LCD and place it into the UI SHIELD.



17. Insert the first LCD ADAPTER and push it into its place.

18. Mind the guide while pushing down evenly.

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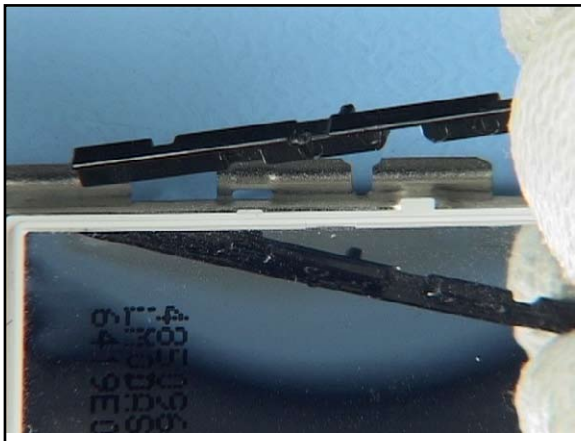
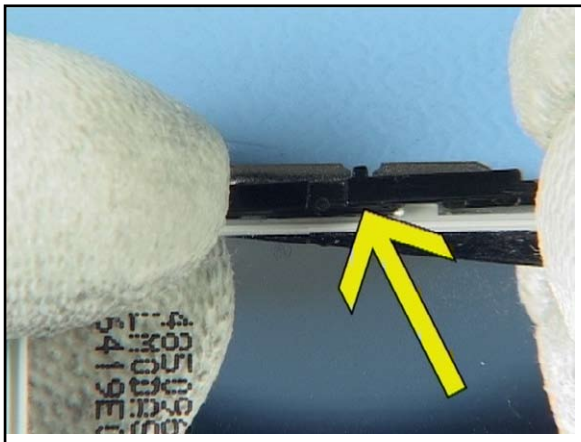
19. Slightly shift down the LCD MODULE as shown.

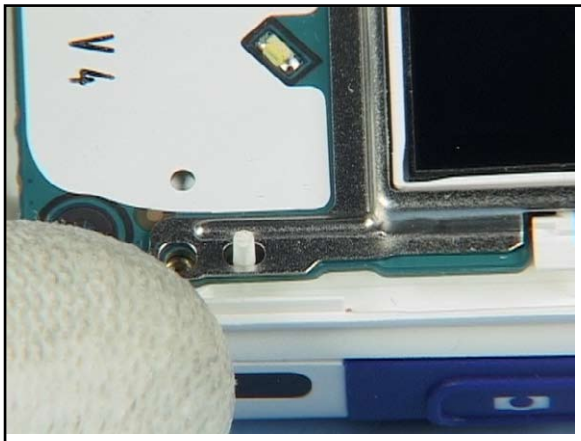


20. Insert the opposite LCD ADAPTER now.

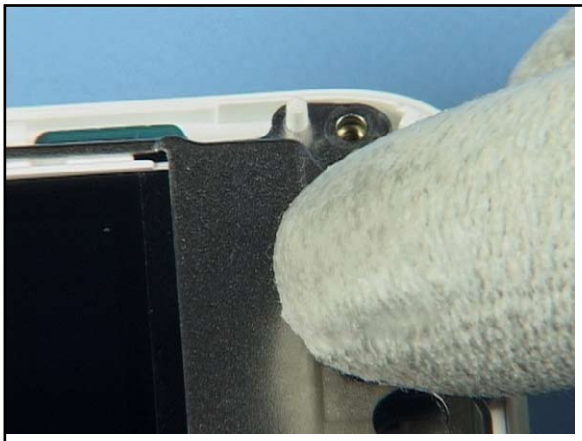


21. Mind the guide and push it down evenly.

22. Now place the UI SHIELD over the assembly as shown.



23. Mind the guides.



24. Close the LCD Module connector.

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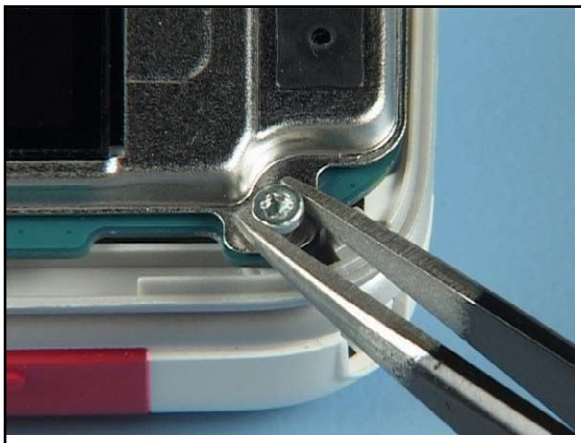
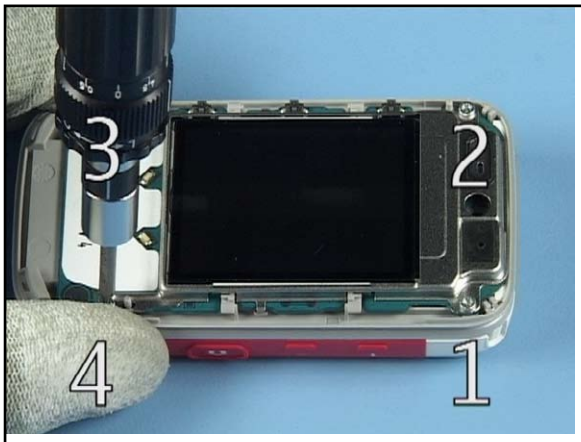


25. Insert the screws.

26. Set the correct torque.



27. Apply the torque to all screws in the order shown.

28. Insert the MICROPHONE.

29. Note that the spring contacts are very delicate and can be bent easily.

30. Fit the FUNCTIONAL KEYMAT.

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31. Click the snaps into their places.

32. Do not forget removing the protective film before continue.

33. Align the A-COVER assembly and push it down evenly. Click all snaps into their places.

34. Check the window for cleanness.

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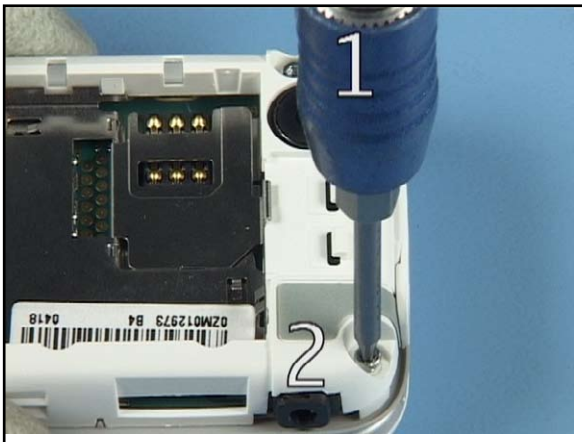
11. LOWER BLOCK DISASSEMBLY INSTRUCTION

1. Needed tools: The SS-45 & SS-88 camera removal tool, metal tweezers, a straight bladed screwdriver, a bitholder with a Torx plus size 6 bit, a torque driver, and a DC plug.

2. Always cover the windows with a protective film.

3. Unlock and remove the E-COVER. Remove the battery if it is still inserted.



4. Unscrew the torx plus size 6 screws in the order shown.

5. Remove all screws and discard them. Do not use them again.

6. Before removing the LABEL COVER, open the SIM flip first...

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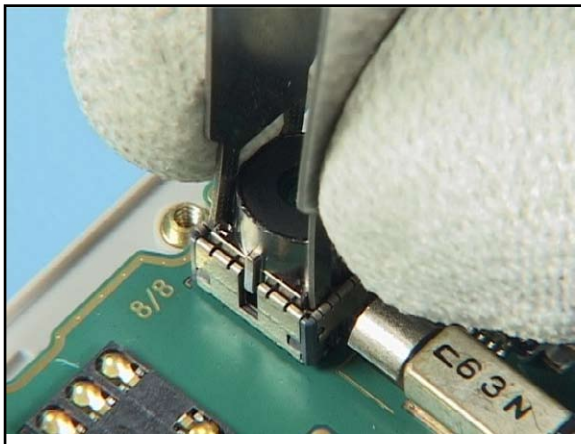
7. ...then lever out the whole LABEL COVER. Never mismatch this part with other engine modules.

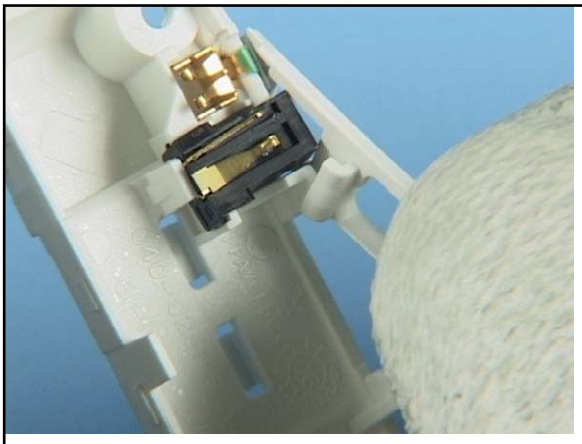
8. Carefully unlock the latches of the C-COVER on both sides. Do not bent the Shielding Lids.

9. Shift the C-COVER in direction shown and remove it.

10. Do not touch the lens of the CAMERA while removing the CAMERA GASKET.



11. Use the SS-45 Camera removal tool to unlock the clips of the housing of the CAMERA. Use the SS-88 for the smaller CAMERA of the 5200.



12. Carefully release the POWER KEY.

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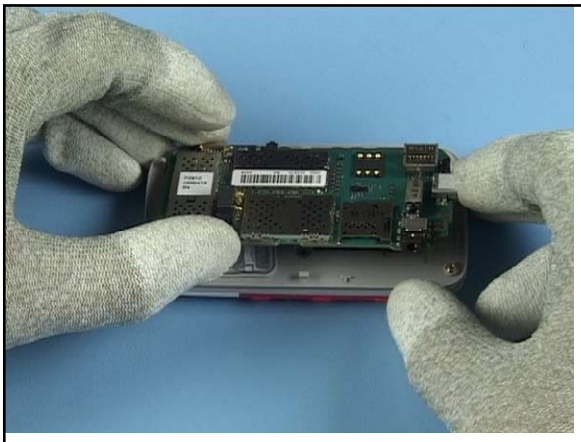
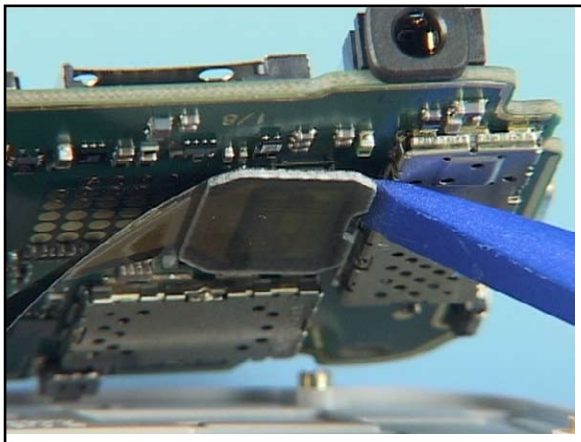
13. Lever out the DC JACK with the DC Plug.



14. Lift up the ENGINE MODULE, but bear in mind that the flex connector is still connected.



15. Carefully lever open the Flex connector.

16. Remove the NUMERIC KEYMAT.

17. The disassembly procedure is now completed.

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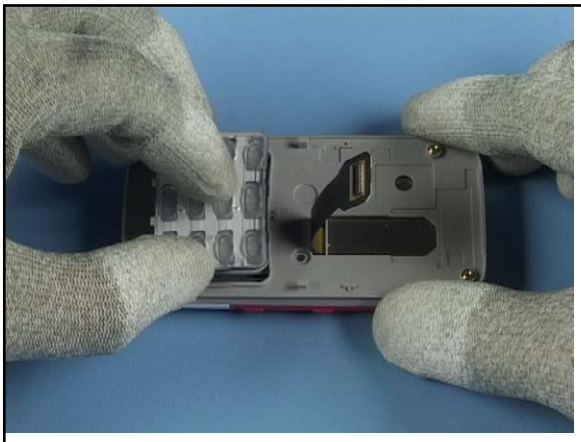
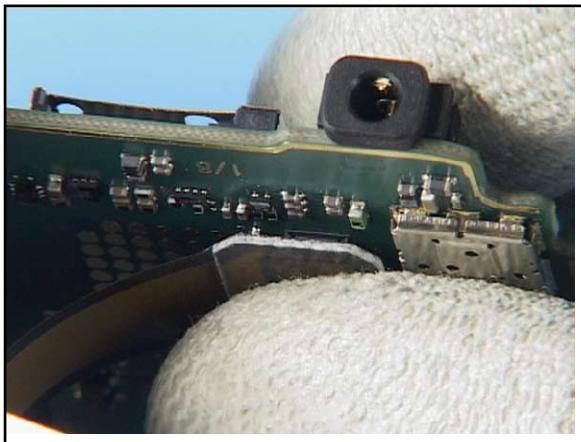
12. LOWER BLOCK ASSEMBLY INSTRUCTION

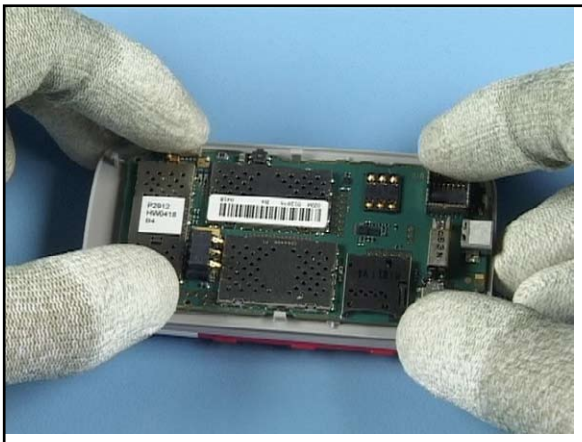
1. Assembly



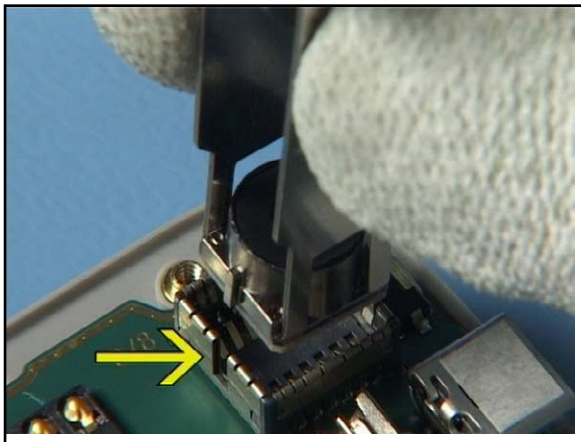
2. Insert the NUMERIC KEYMAT.



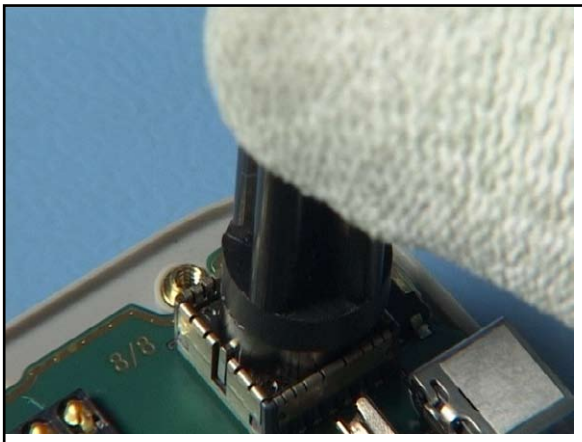
3. Connect the flex foil.



4. Position the ENGINE MODULE correctly.



5. Insert the CAMERA. Mind the correct positioning. Use the SS-88 for the smaller camera of the 5200.



6. Carefully push it into its place.

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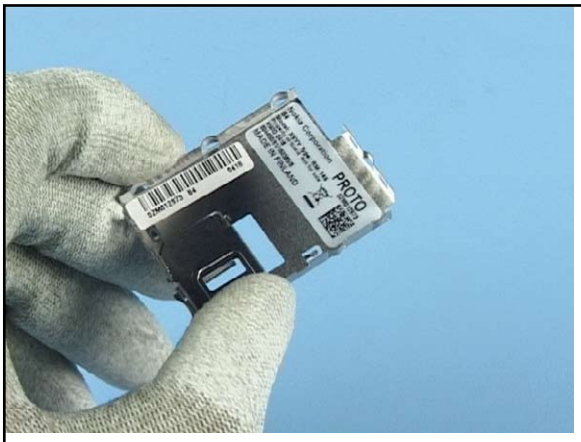
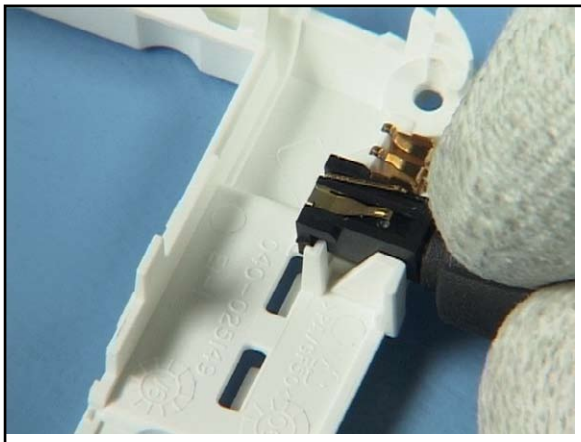
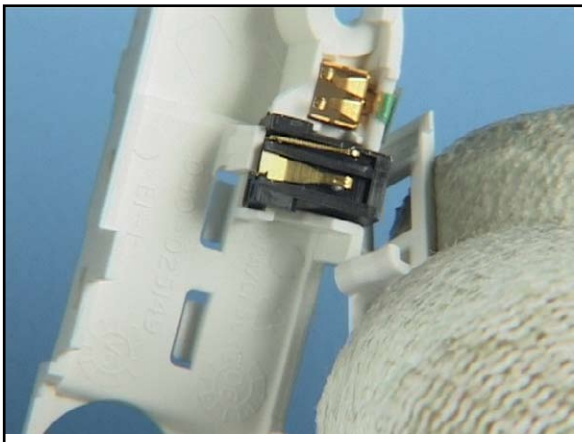
7. Place the CAMERA GASKET.



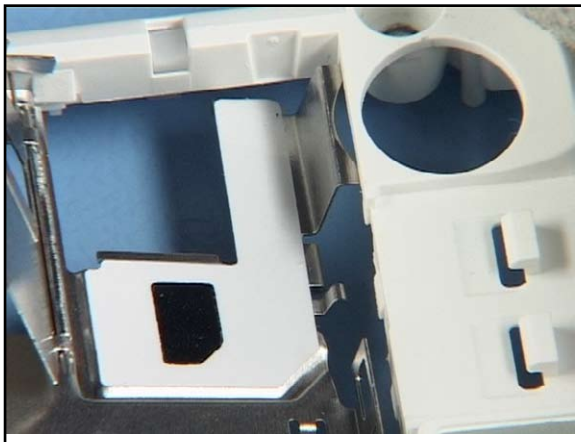
8. When replacing the D-COVER assembly, the delivered LABEL COVER must be replaced with the original labeled one. Never deliver a Product without its Type Label.



9. Insert the DC JACK with the DC Plug.



10. Place the POWER KEY, mind the correct placement.



11. Insert the LABEL COVER, fitted with the original TYPE LABEL.

12. Click all snaps into their places.

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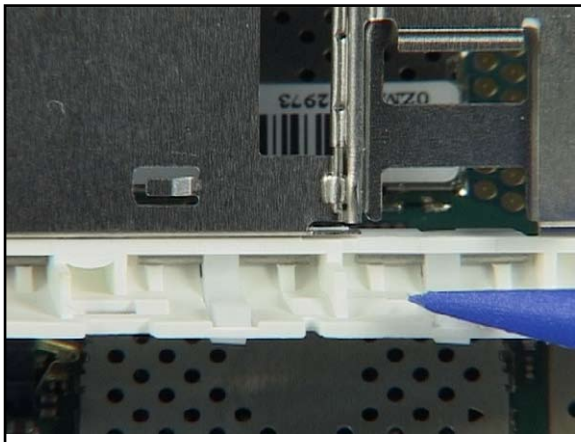
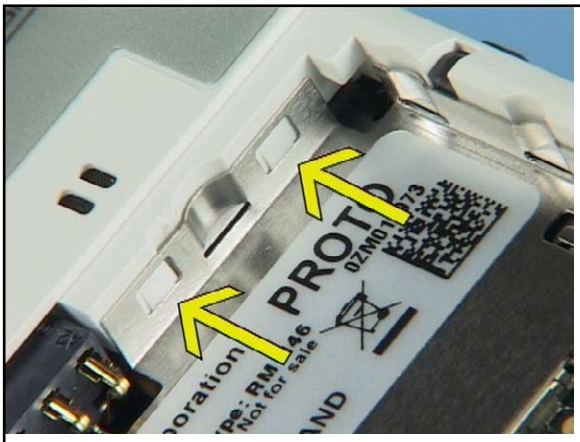


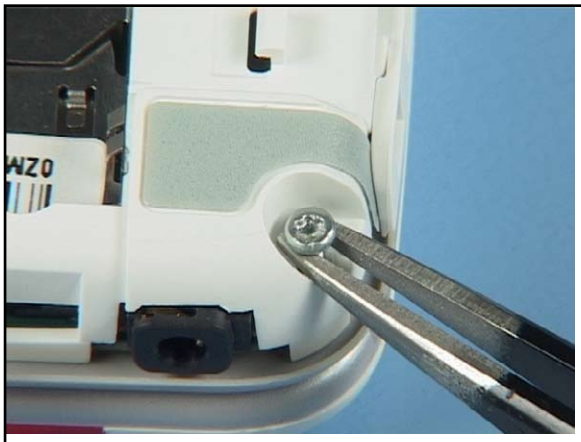
13. Before continue,- bring all sidekey levers into the position shown.

14. Place the assemblies together, click the snaps into their places.

15. Check the functionality of all keys before going on.



16. Mind the correct positioning of this metal clips.



17. Insert the screws.

18. Set the correct torque.

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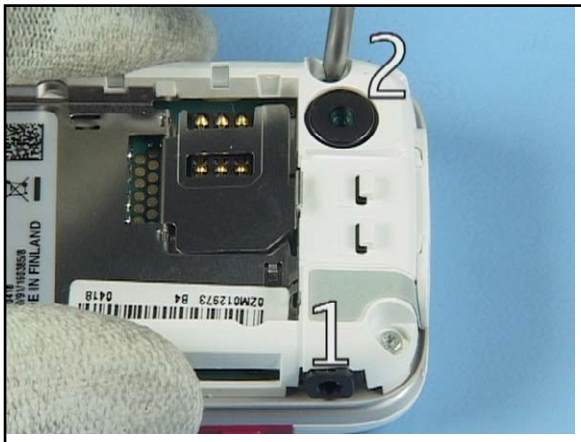

19. Apply the torque to all screws in the order shown.

20. Complete the assembly with the B-COVER.

21. At least check the functionality of the slide mechanism.

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13. LEGEND FOR QUICK TROUBLE SHOOTER

Legend for Quick Trouble Shooter

This legend is valid for all parts of the Quick Trouble Shooter

Follow the steps until the problem is solved. If this doesn´t help, you are not authorized to go forward.

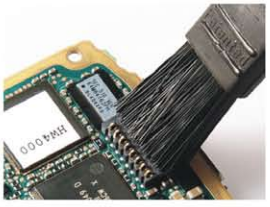
Check the mechanical condition of the component (bent, broken or missing).

Only marked components can be replaced.

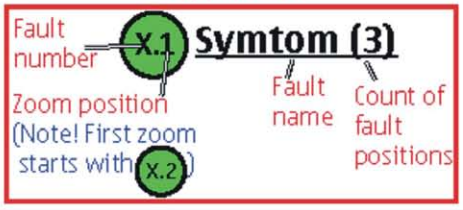
<u>Cloth usage:</u> Check pads or contacts for optical and mechanical condition particularly regarding to corrosion. Clean it if necessary.

Measure component for electrical functionality and change, if needed.
(Level 2 only)

<u>ESD Brush usage:</u> Check contacts for optical and mechanical condition particularly regarding to corrosion. Clean it if necessary.



Explanation



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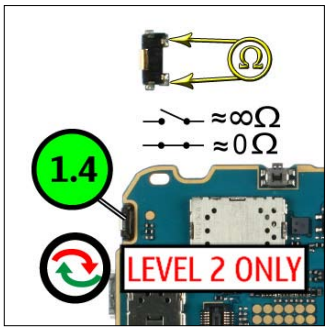
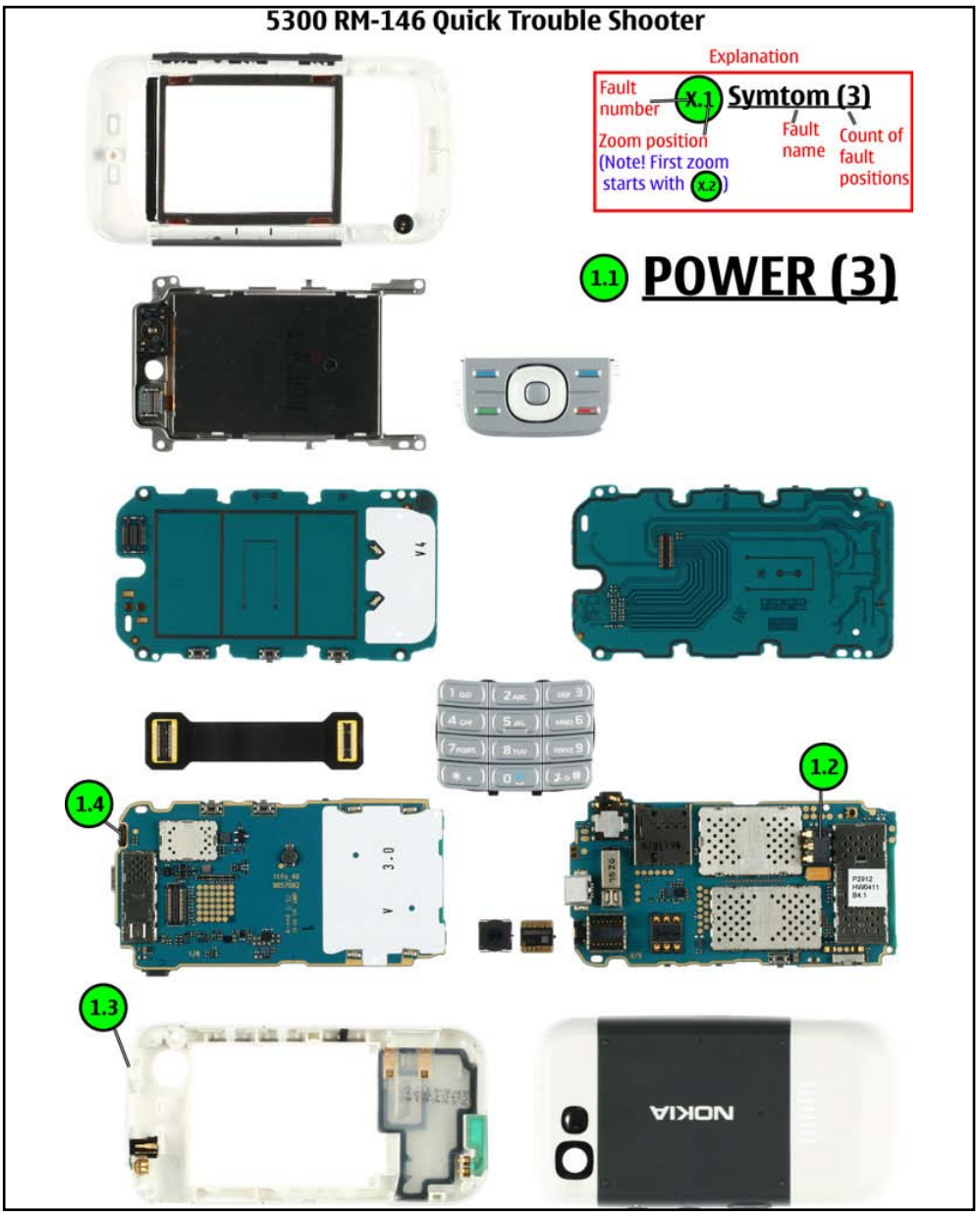
14. QUICK TROUBLE SHOOTER - POWER





1.2 Battery Connector (X2070)	
1.3 Power Key	
1.4 Switch (S2403)	

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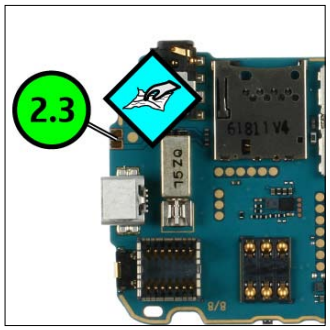
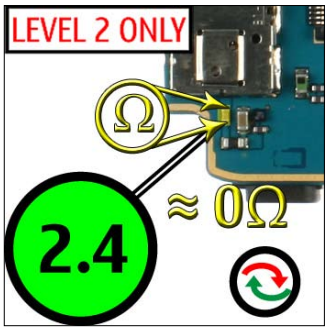
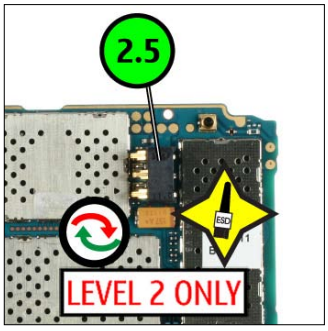
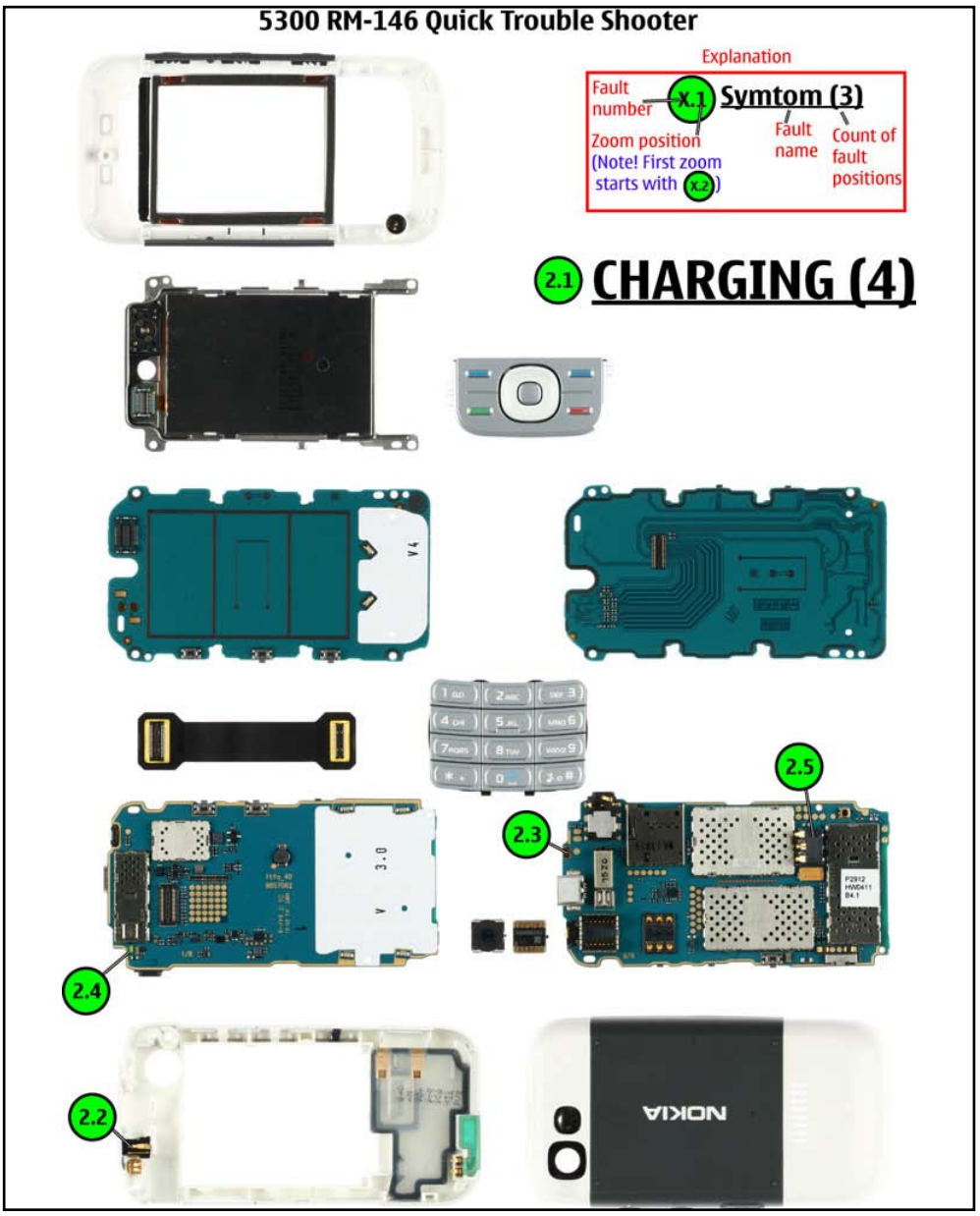
15. QUICK TROUBLE SHOOTER - CHARGING









2.2 DC-Jack
2.3 ------
3.4 Fuse (F2000)

2.5 Battery Connector (X2070)

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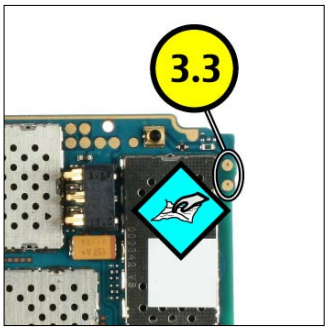
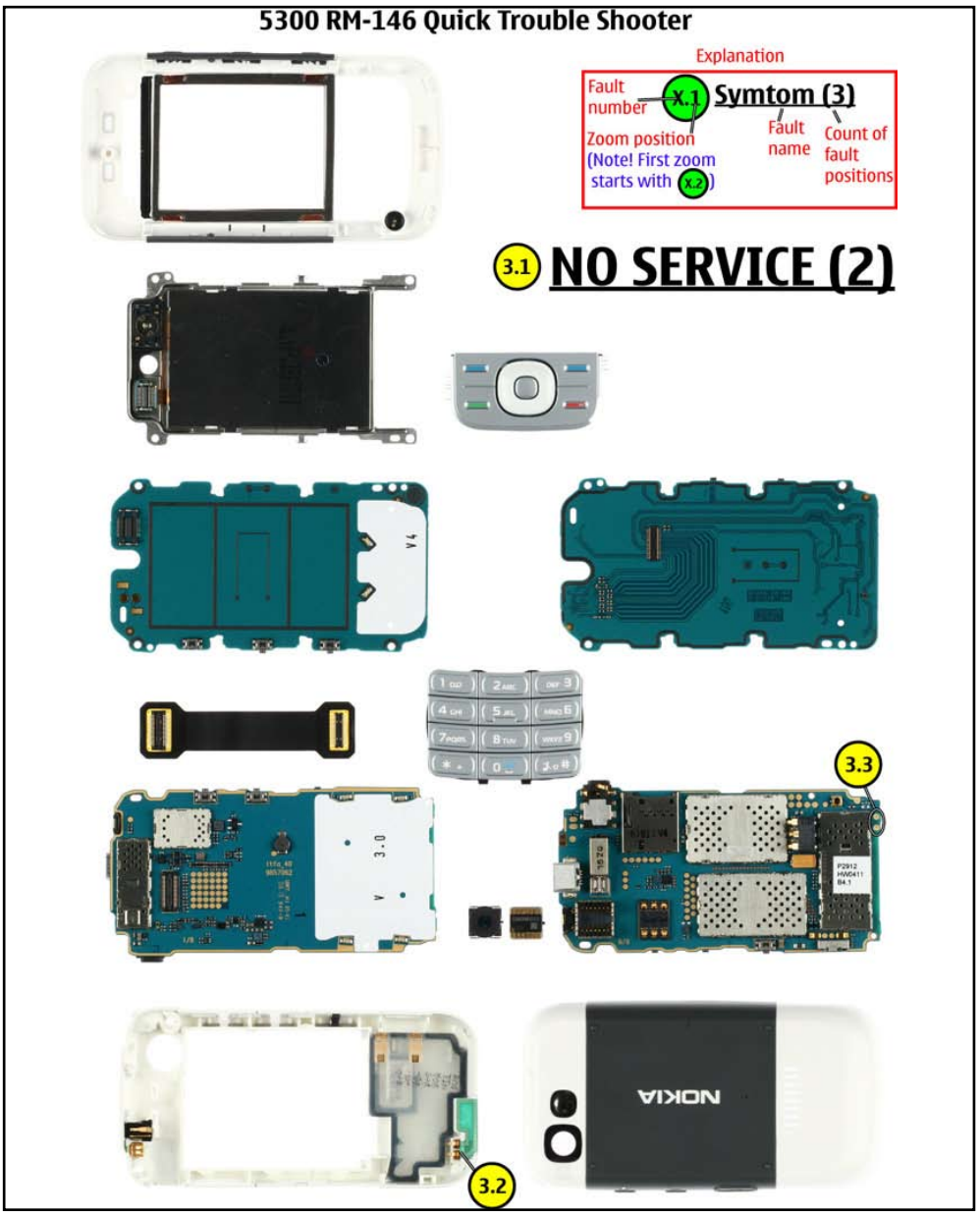
16. QUICK TROUBLE SHOOTER - NO SERVICE





3.2 D-Cover Assembly
3.3 ------

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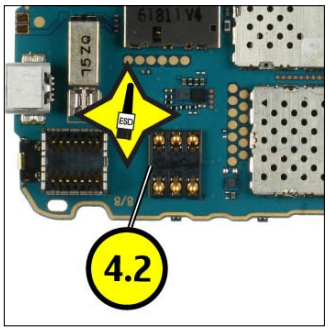
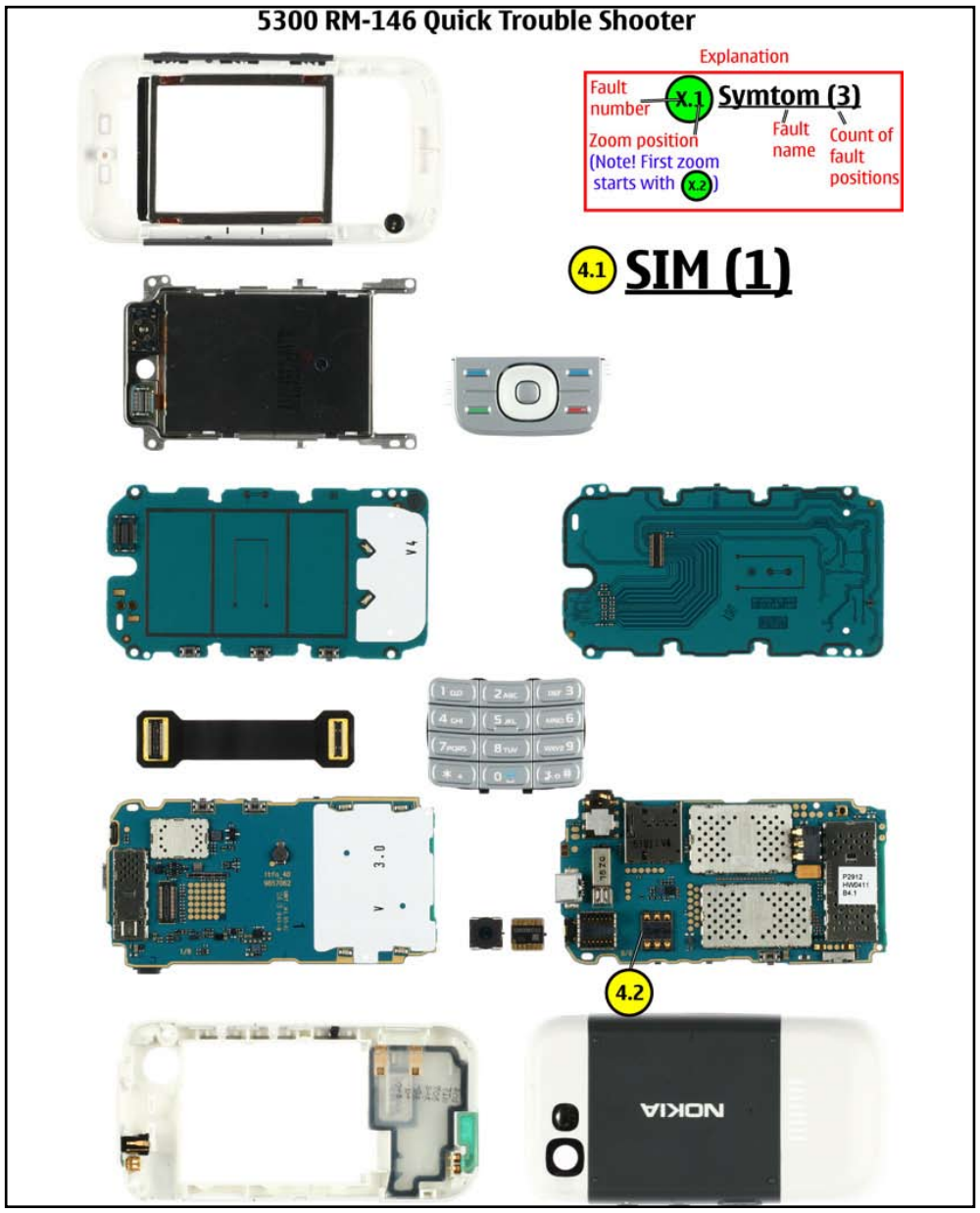
17. QUICK TROUBLE SHOOTER - SIM





4.2 ------

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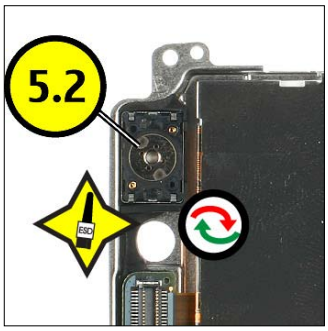
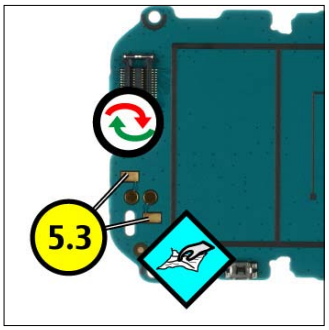
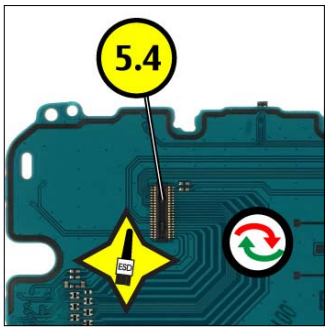
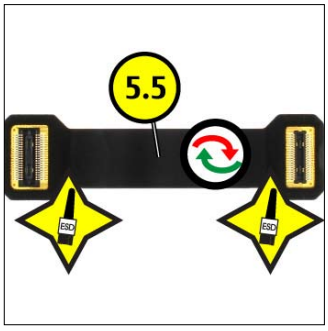
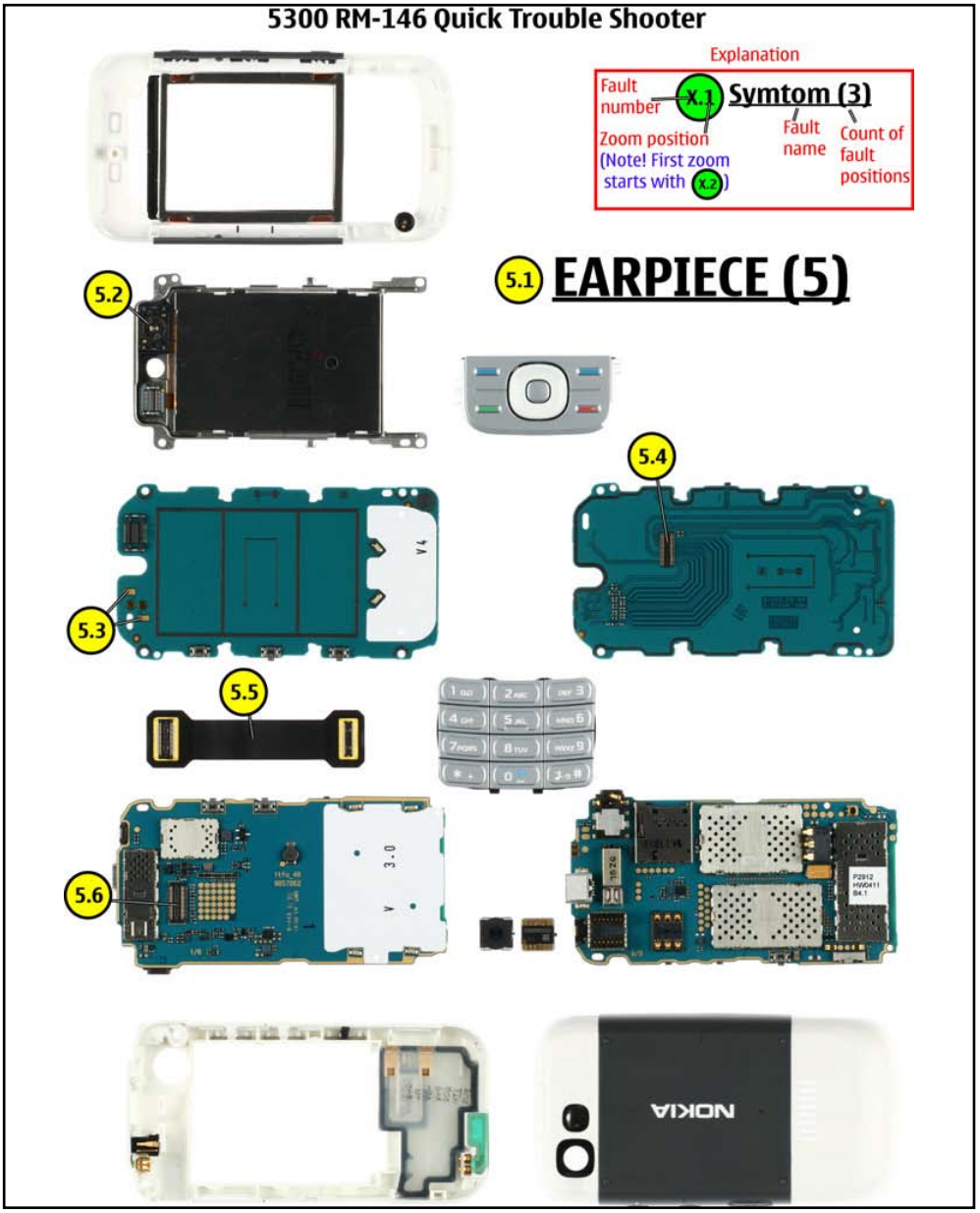
18. QUICK TROUBLE SHOOTER - EARPIECE











5.2 Earpiece	5.5 Slide Flex
5.3 1TG UI Module Assembly	5.6 Connector (X2402)
5.4 1TG UI Module Assembly	

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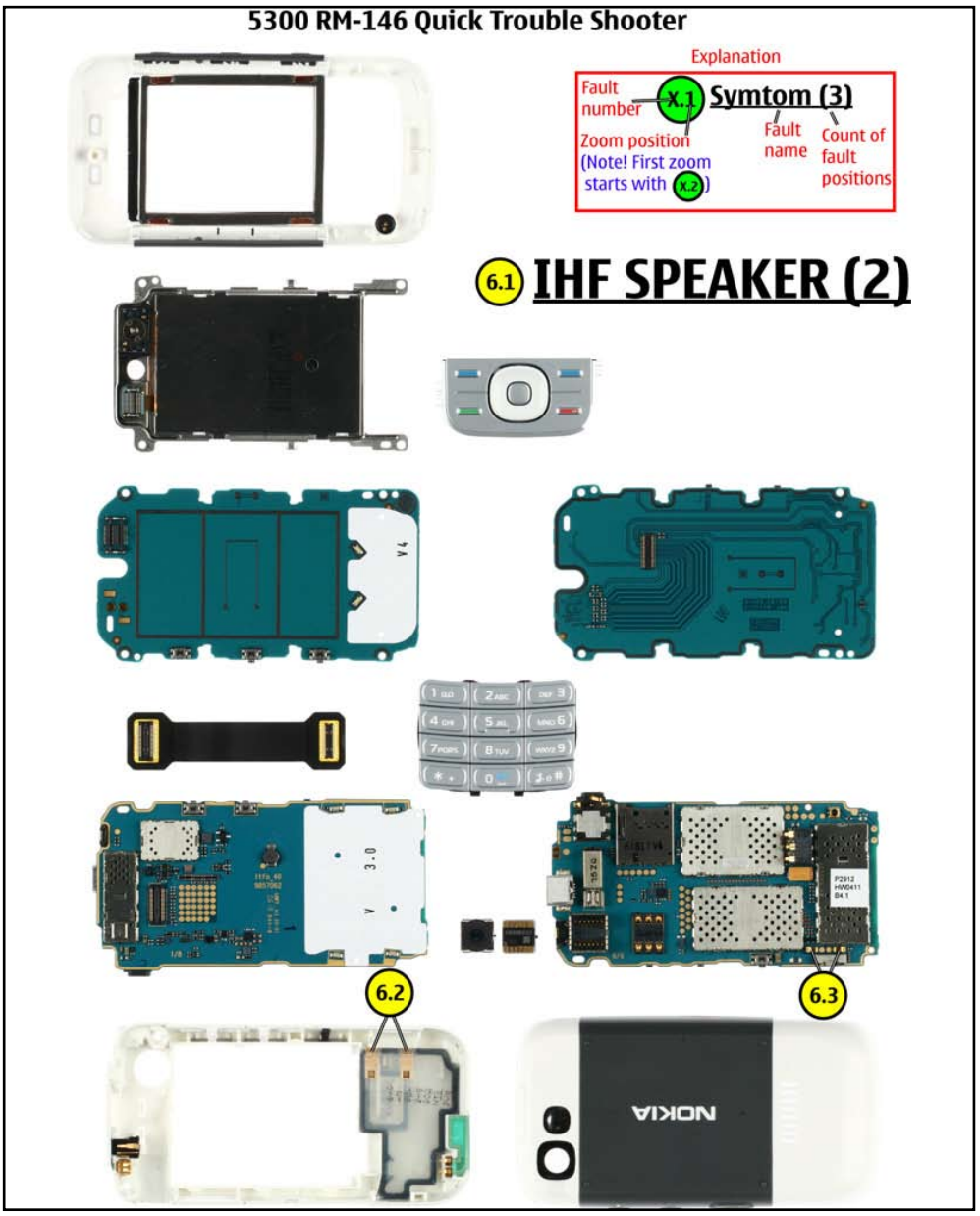
19. QUICK TROUBLE SHOOTER - IHF SPEAKER



6.2 D-Cover Assembly
6.3 ------

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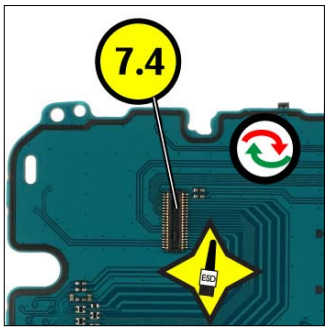
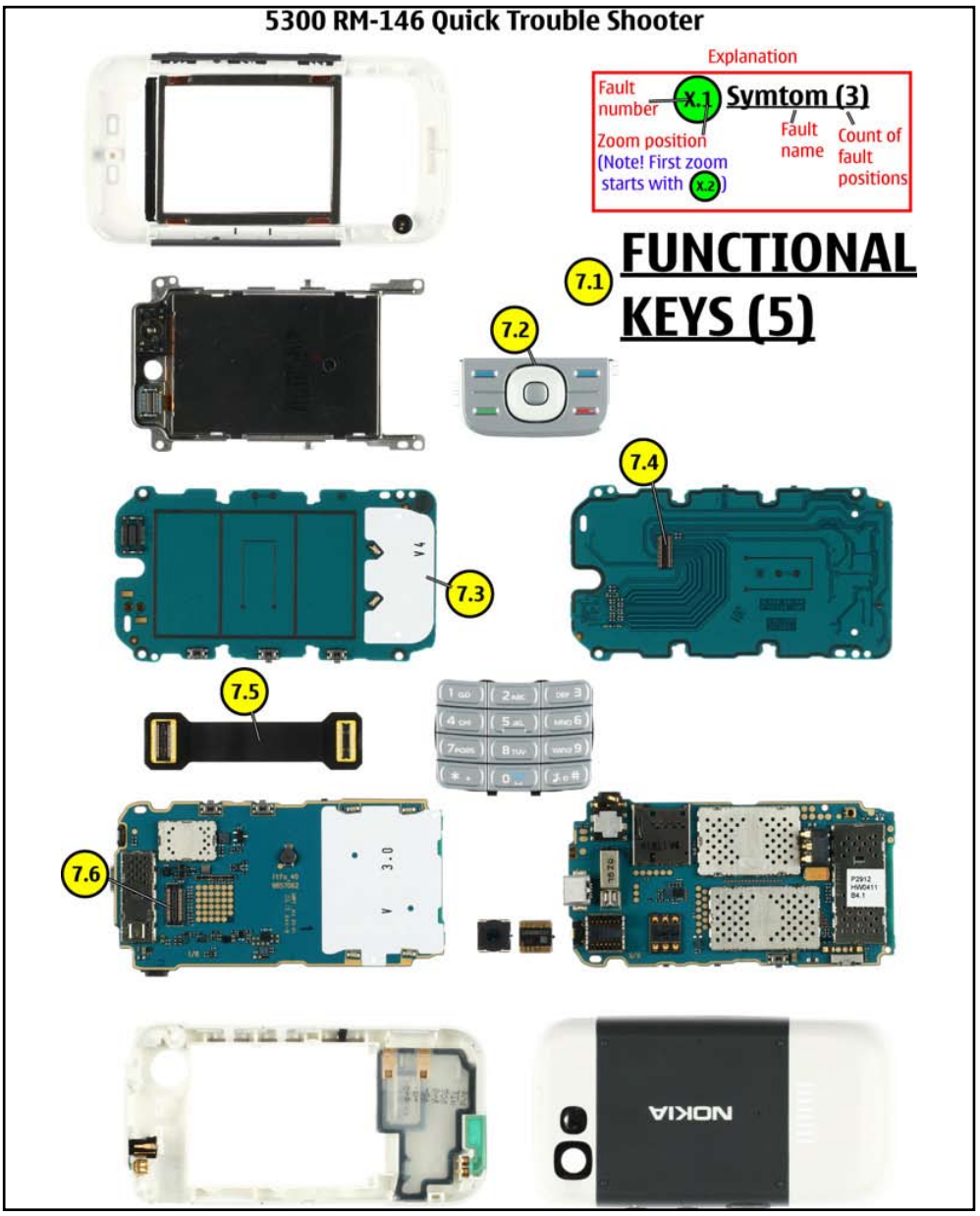
20. QUICK TROUBLE SHOOTER - FUNCTIONAL KEYS





7.2 Functional Keymat
7.3 Functional Domesheet
7.4 1TG UI Module Assembly
7.5 Slide Flex
7.6 Connector (X2402)

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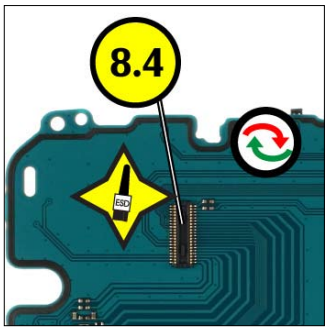
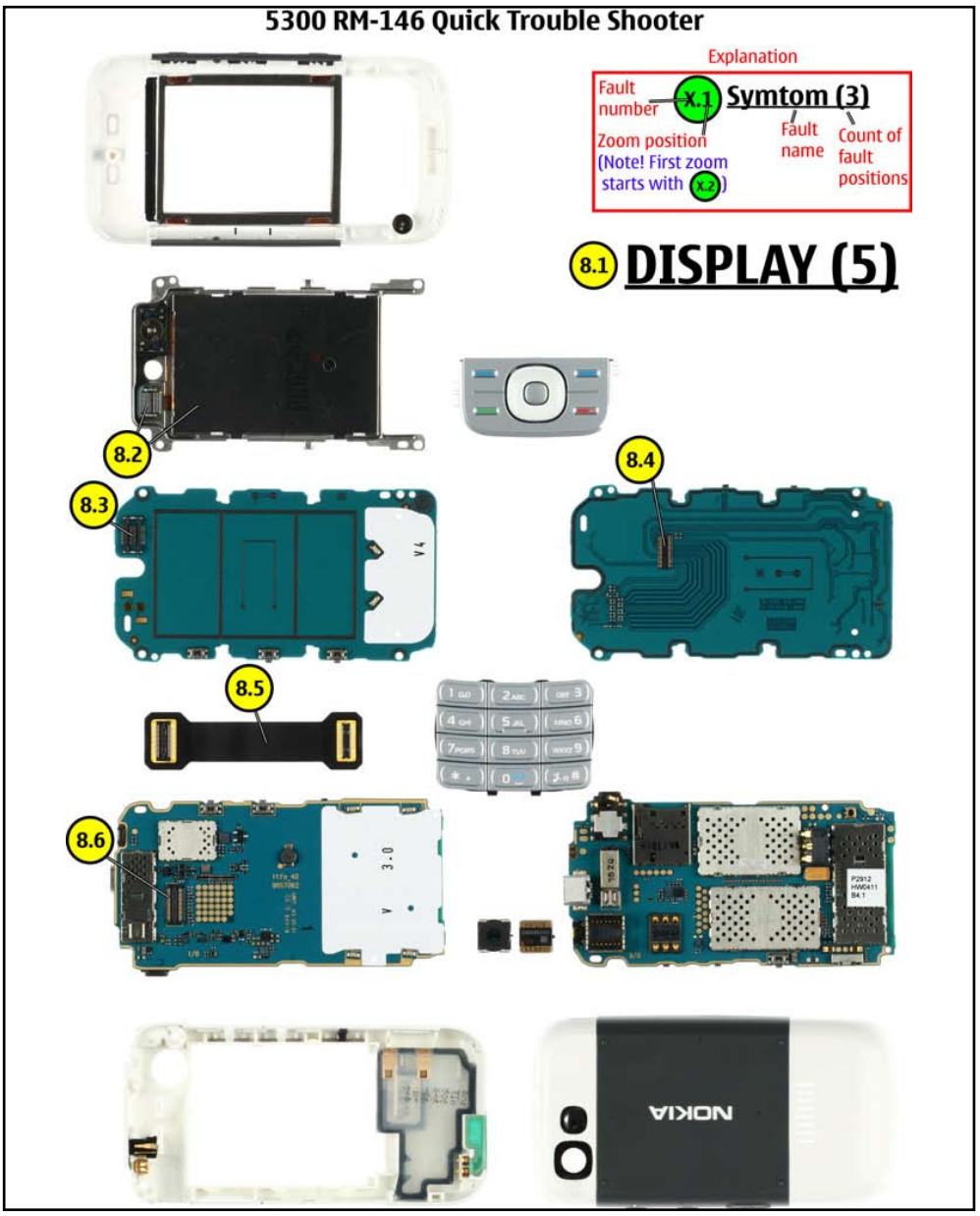
21. QUICK TROUBLE SHOOTER - DISPLAY





8.2 LCD Module	8.5 Slide Flex
8.3 1TG UI Module Assembly	8.6 Connector (X2402)
8.4 1TG UI Module Assembly	

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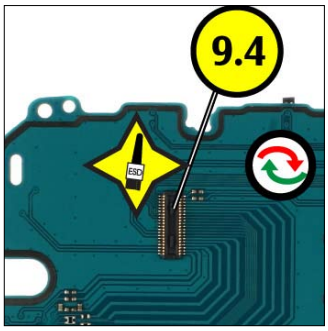
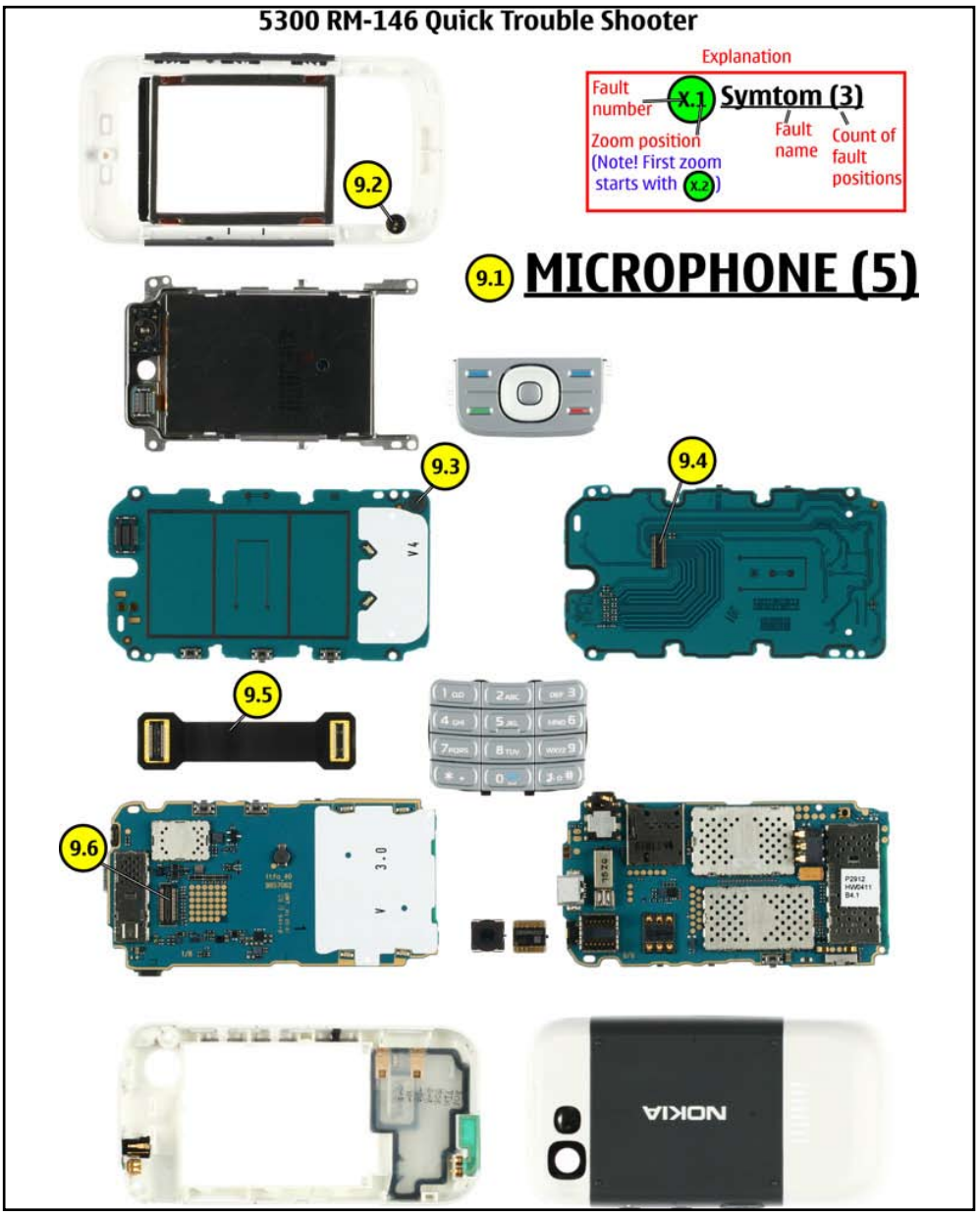
22. QUICK TROUBLE SHOOTER - MICROPHONE





9.2 Microphone	9.5 Slide Flex
9.3 1TG UI Module Assembly	9.6 Connector (X2402)
9.4 1TG UI Module Assembly	

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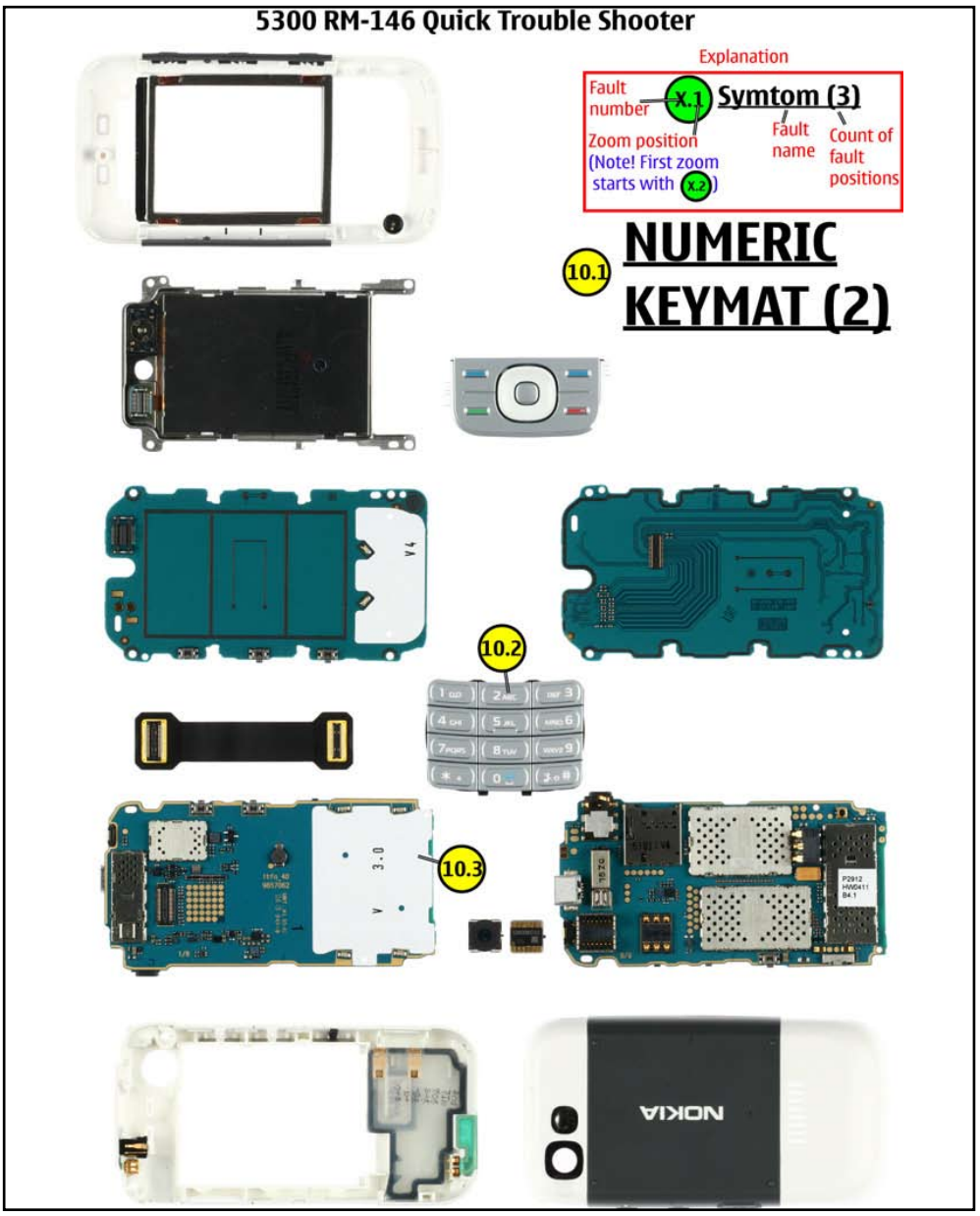
23. QUICK TROUBLE SHOOTER - NUMERIC KEYMAT



10.2 Numeric Keymat
10.3 Numeric Domesheet

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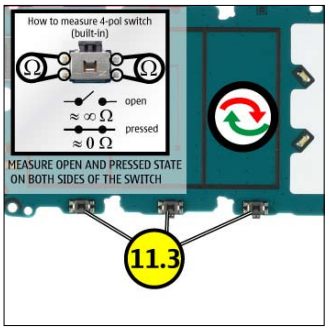
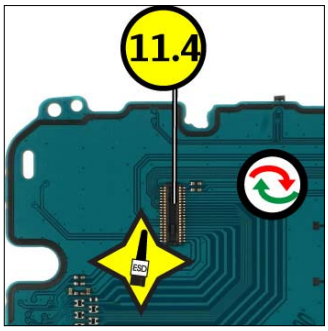
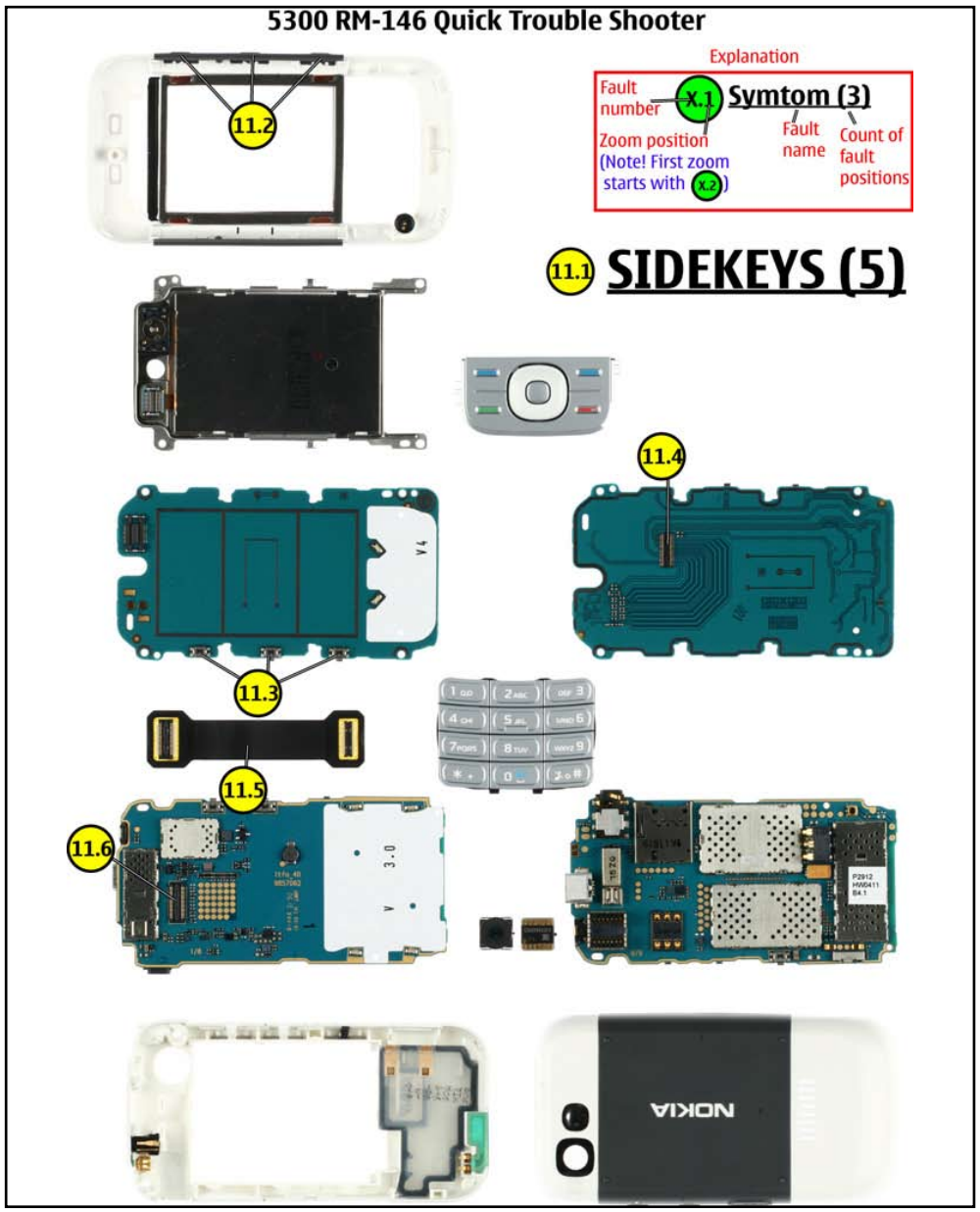
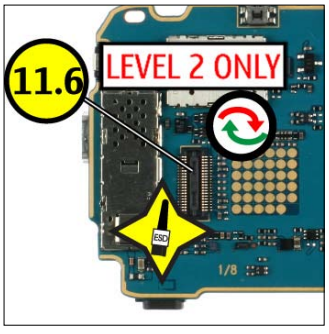
24. QUICK TROUBLE SHOOTER - SIDEKEYS







11.2 A-Cover Assembly
11.3 1TG UI Module Assembly
11.4 1TG UI Module Assembly
11.5 Slide Flex
11.6 Connector (X2402)



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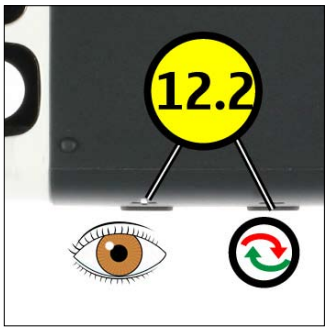
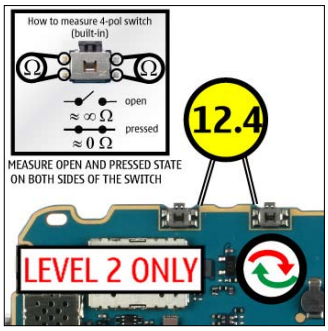
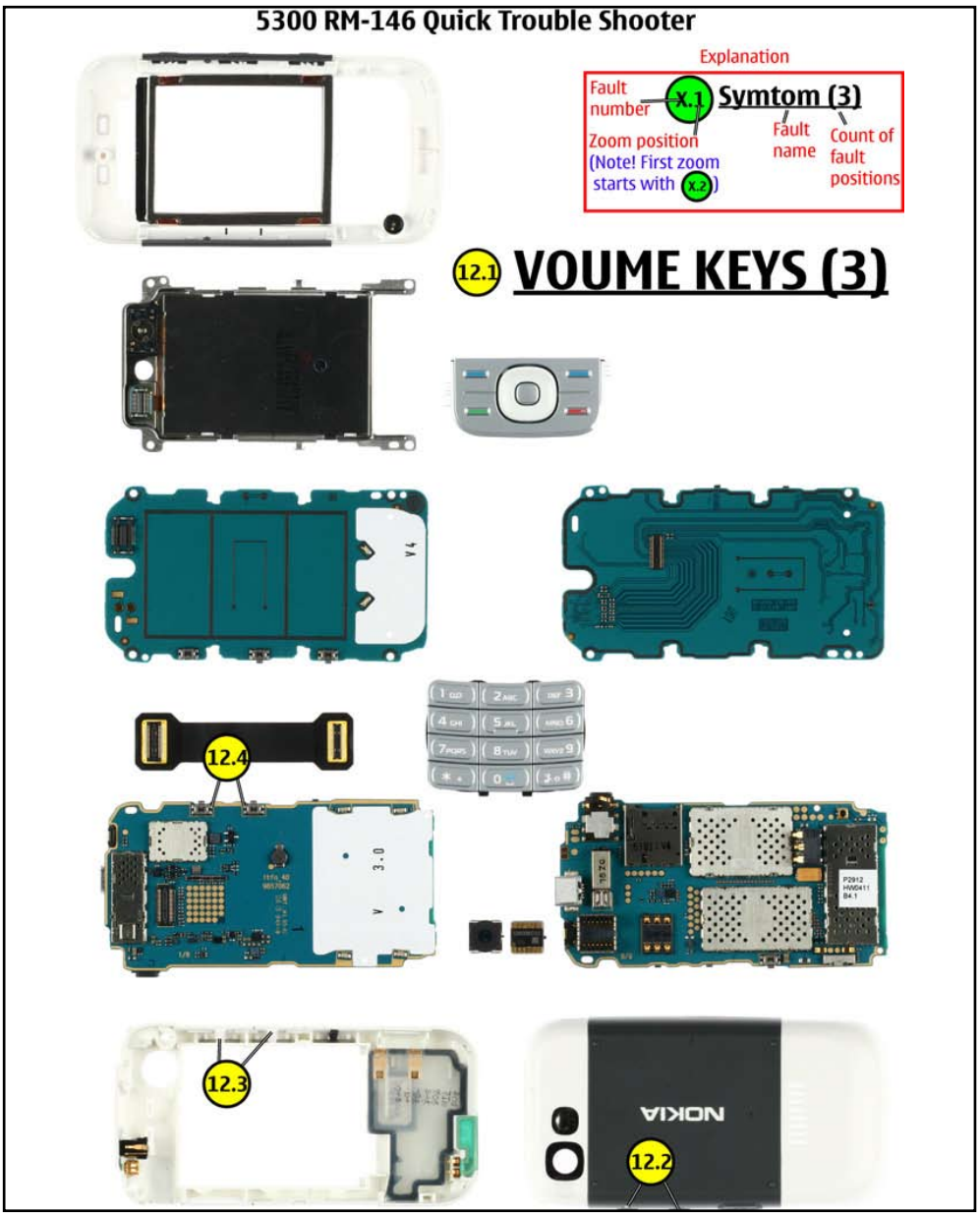
25. QUICK TROUBLE SHOOTER - VOLUME KEYS







12.2 E-Cover Assembly
12.3 D-Cover Assembly
12.4 Switchs (S2401 / S2402)

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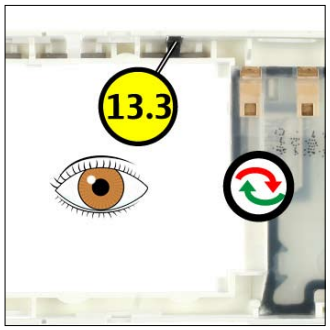
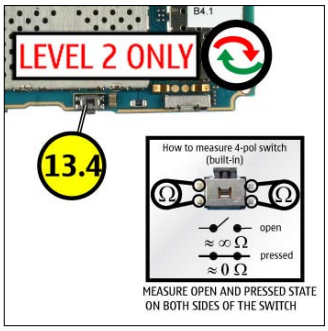
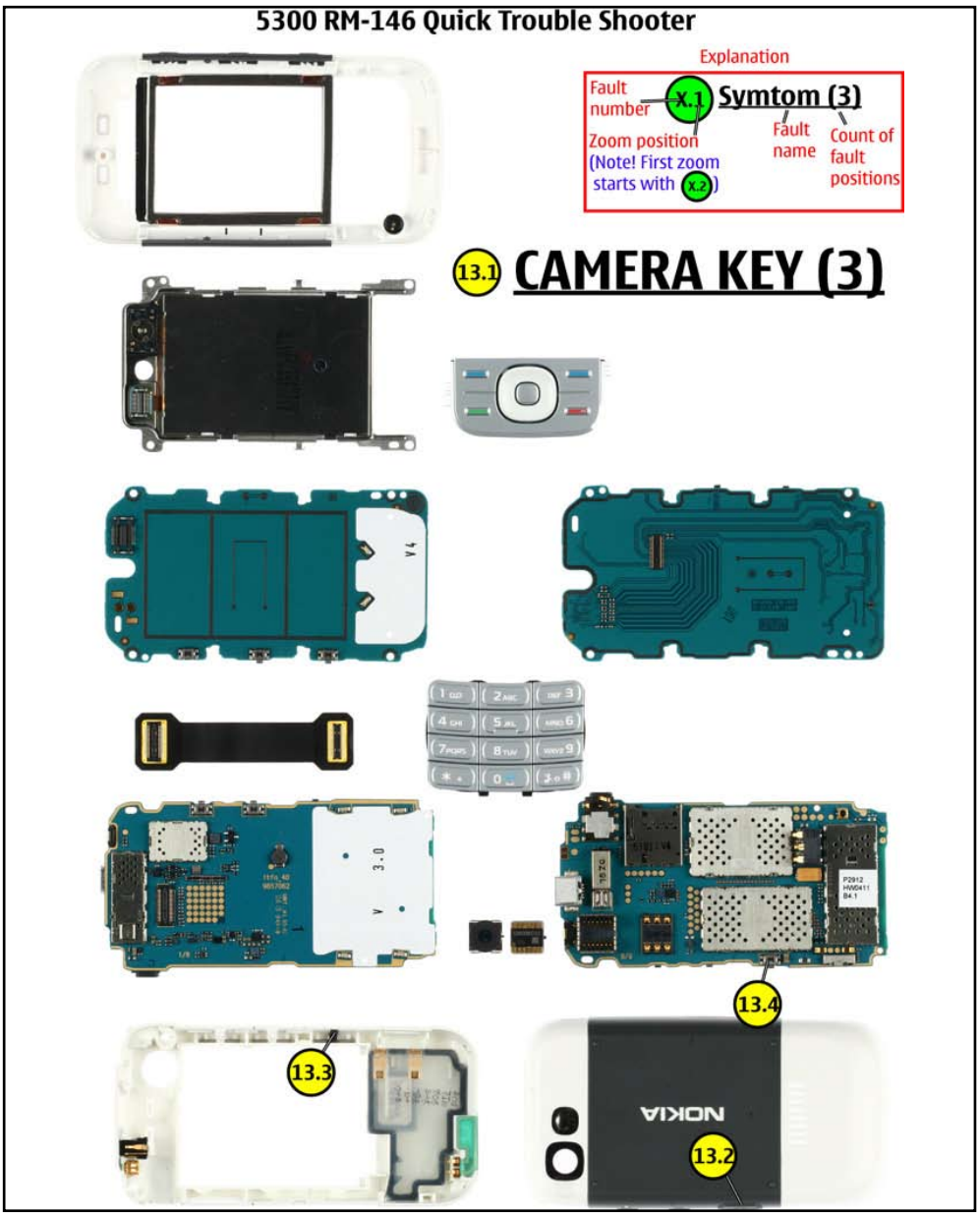
26. QUICK TROUBLE SHOOTER - CAMERA KEY







13.2 E-Cover Assembly
13.3 D-Cover Assembly
13.4 Switch (S2404)

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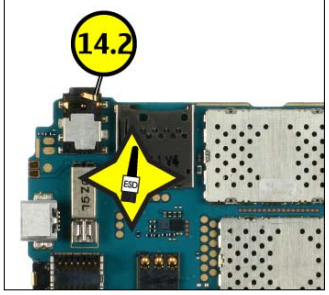
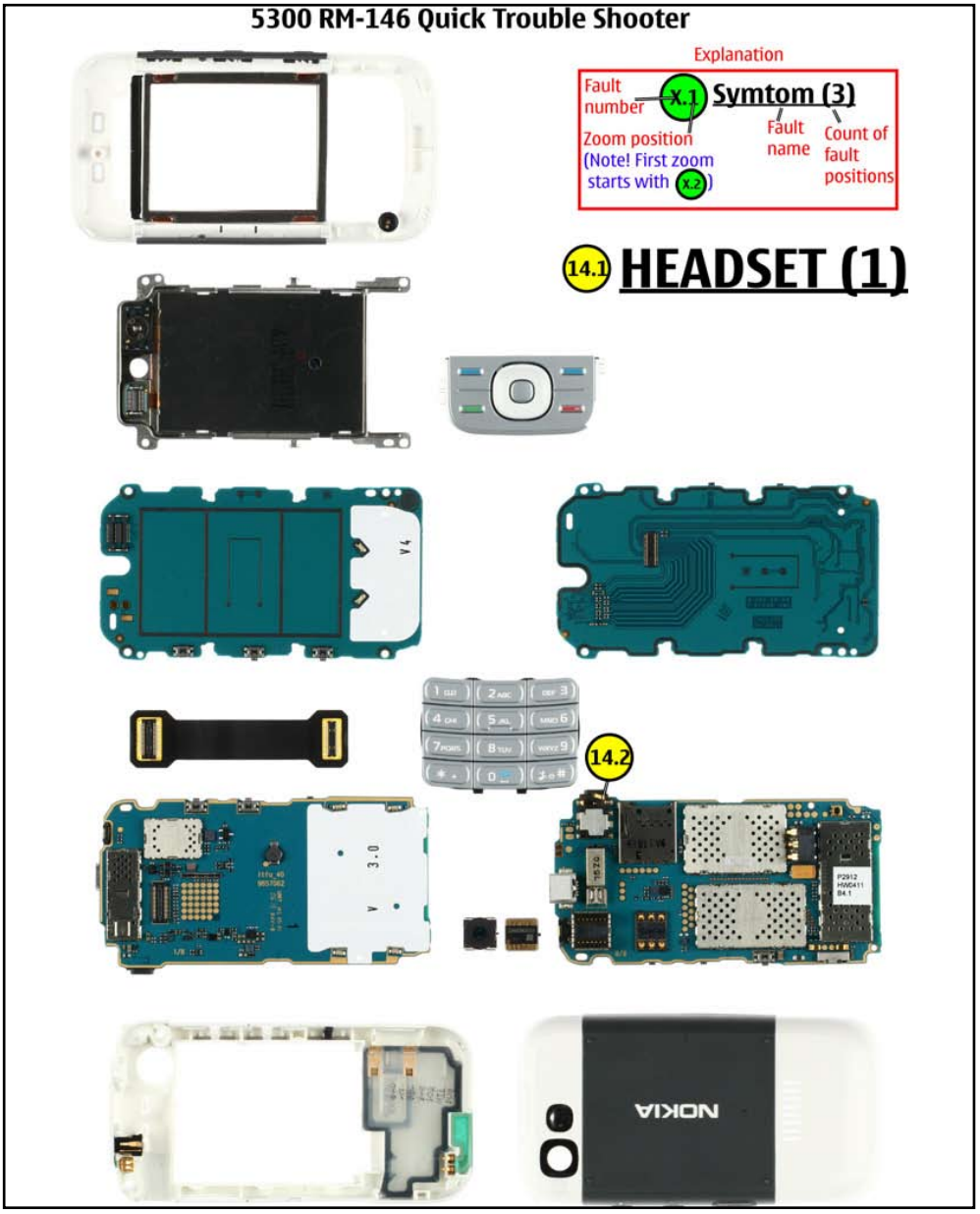
27. QUICK TROUBLE SHOOTER - HEADSET





14.2 ------

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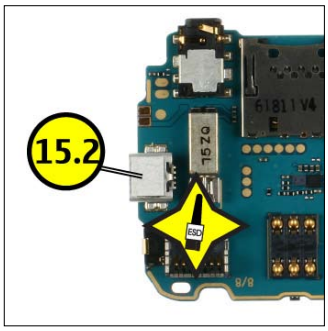
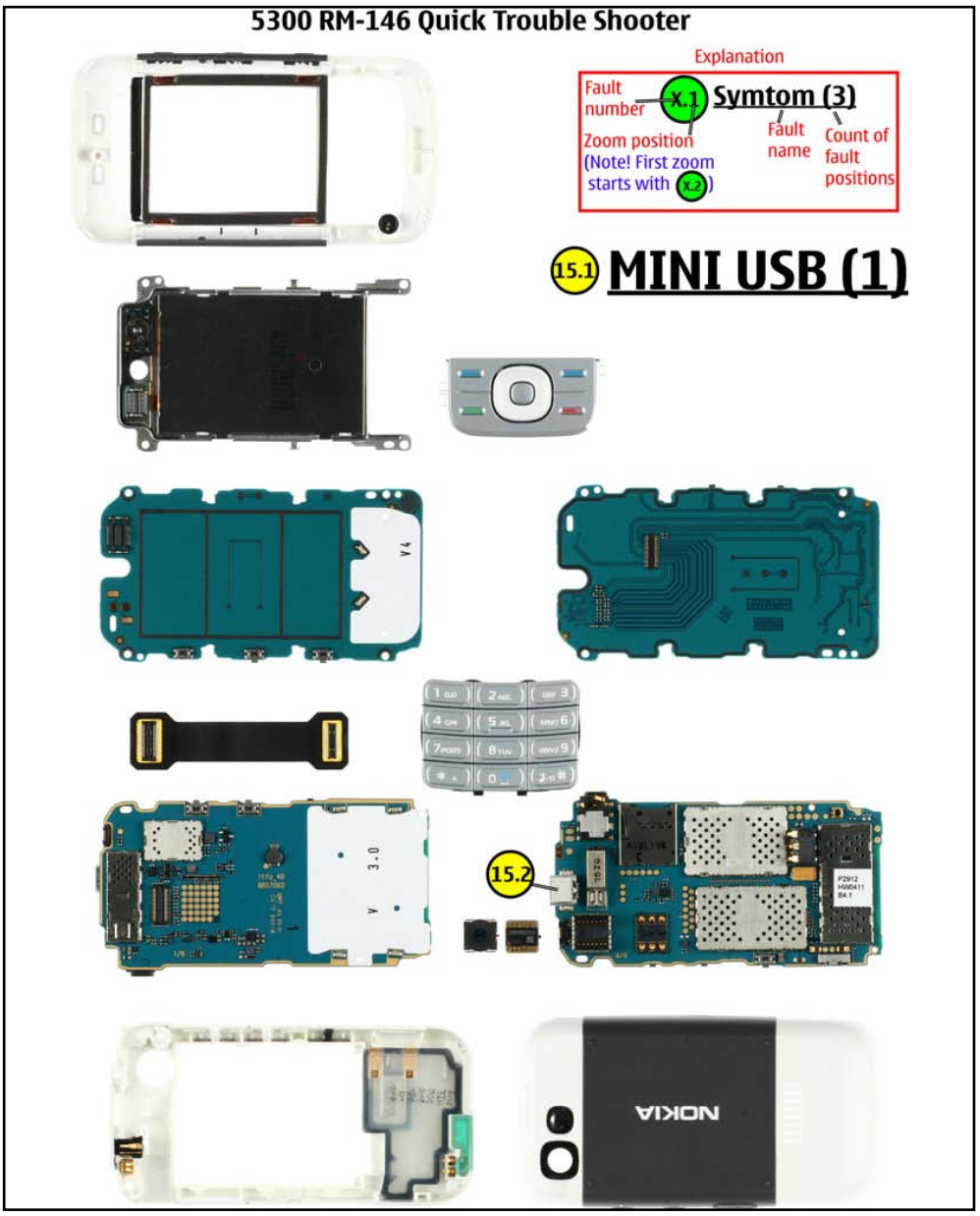
28. QUICK TROUBLE SHOOTER - MINI USB





15.2 ------

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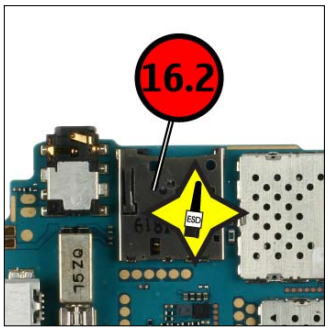
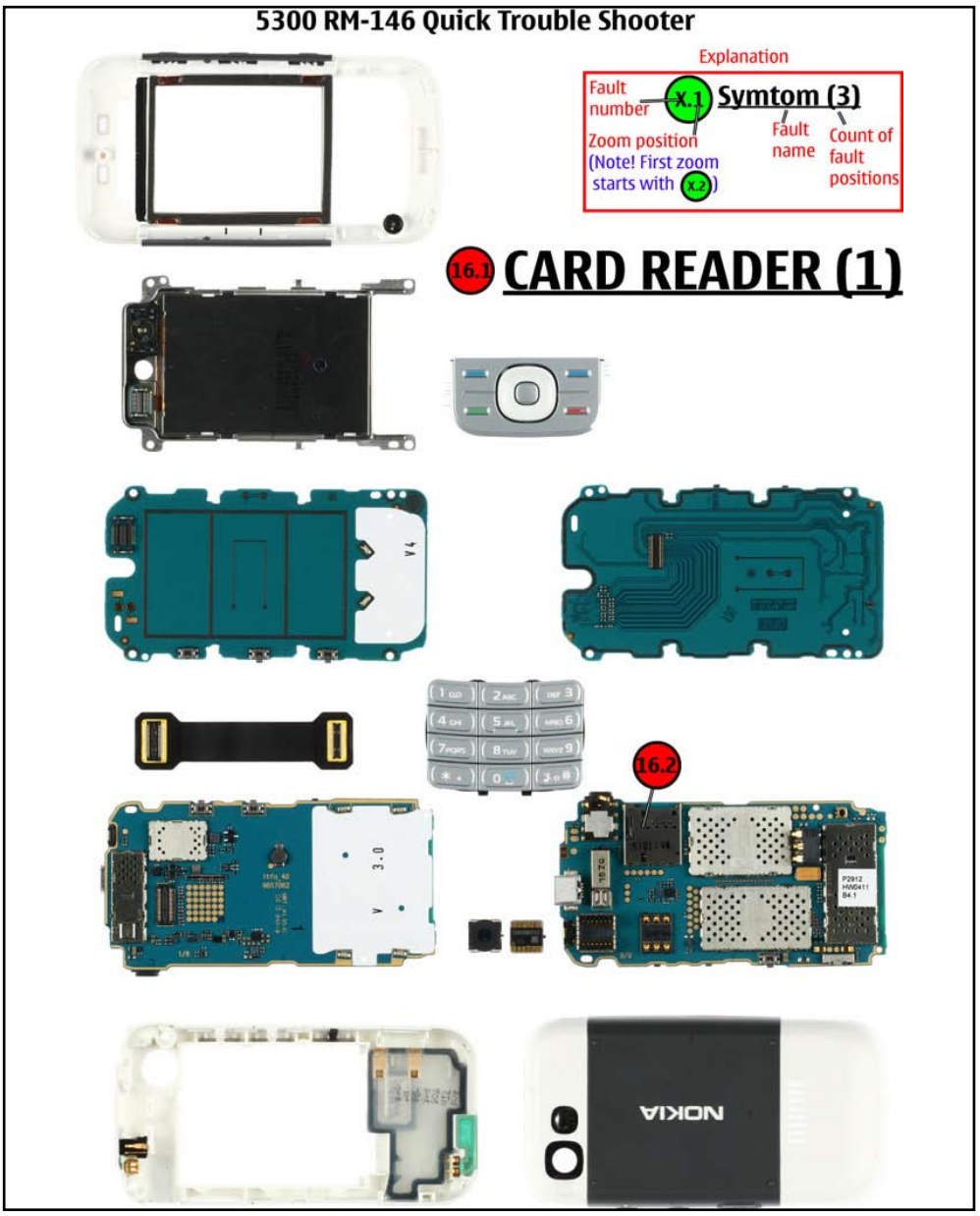
29. QUICK TROUBLE SHOOTER - CARD READER





16.2 ------

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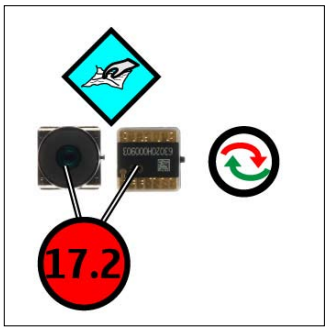
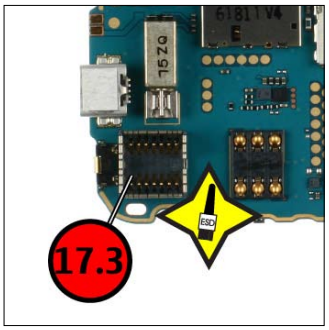
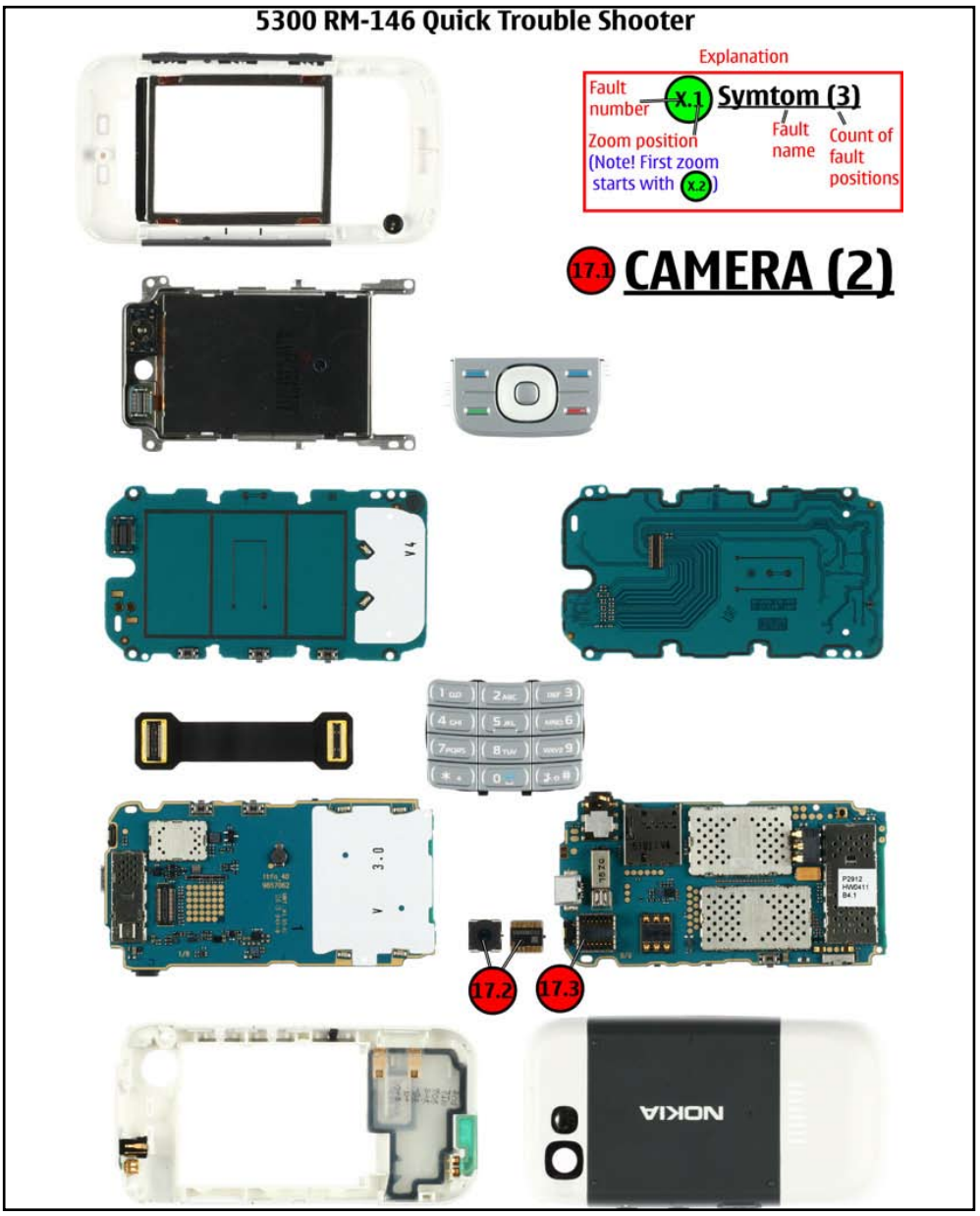
30. QUICK TROUBLE SHOOTER - CAMERA







17.2 Camera
17.3 ------

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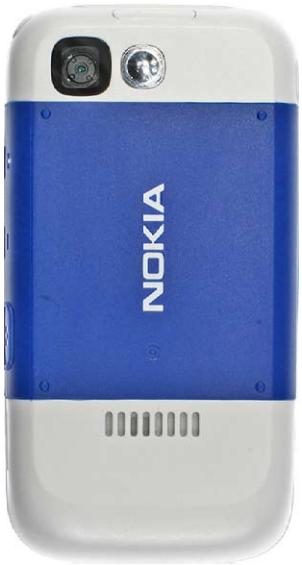
31. GONOGO TEST

To test the Camera, Bluetooth and IRDA functionality refer to the phone User`s guide.

The User´s Guide is available on www.nokia.com.

Before starting the GoNoGo test, check that camera window is clean. If not, clean the window with cloth.



Bluetooth test
You need another Bluetooth device (e.g. 6230) to do a GoNoGo test.
Make sure that Bluetooth is activated in the reference unit. The distance of the devices should be not more than 5m from each other.

Infrared test
You need another infrared device (e.g. 6230) to do a GoNoGo test. The infrared windows of the devices must be directed to each other and should have a distance of approximate 15 cm. Make sure that infrared is activated in receiver device.

Warning: Do not point the IR (infrared) beam at anyone's eye or allow it to interfere with other IR devices. This device is a Class 1 Laser product.

Reference unit, Bluetooth /infrared activated

Test unit

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32. BATTERY TEST

A battery tester lets you test the capacity of NOKIA batteries.

Please refer to the actual information on NOKIA Online.

http://www.astratec.co.uk/

http://www.cadex.com/

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